

## II. Influent and Effluent Data Summary

The results of all analyses performed on the WWTP influent and effluent are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated. Graphs of monthly averages are presented.

- A. Mass Emissions
- B. Discharge Limits
- C. Influent and Effluent Data Summaries
- D. Influent and Effluent Graphs
- E. Daily Values of selected Parameters
- F. Toxicity Bioassays
- G. 6-Year Tables

## A. Mass Emissions

Mass Emissions of Effluent Using 2009 Monthly Averages

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 effective on September 13, 2002 with limits on pollutant discharges.

Constituent/Property	Benchmarks (mt/yr)	2009 Mass Emissions (mt/yr)	2009 Concentration	Units
Flow (MGD)			<b>153.3</b>	MGD
Total Suspended Solids	<u>13,995</u>	6,774	32	mg/L
BOD	-	21,168	100	mg/L
Arsenic	0.88	0.17	0.79	ug/L
Cadmium	1.4	0.00	0.00	ug/L
Chromium	14.2	0.34	1.6	ug/L
Copper	26	4.28	20.2	ug/L
Lead	14.2	0.00	0.0	ug/L
Mercury	0.19	0.00	0.00	ug/L
Nickel	11.3	1.55	7.3	ug/L
Selenium	0.44	0.28	1.33	ug/L
Silver	2.8	0.01	0.03	ug/L
Zinc	18.3	5.08	24	ug/L
Cyanide	1.57	0.42	0.002	mg/L
Residual Chlorine	--	1.06	0.005	mg/L
Ammonia	8018	6,686	31.5	mg/L
Non-Chor. Phenols	2.57	3.05	14.4	ug/L
Chlorinated Phenols	1.73	0.00	0.0	ug/L
Endosulfan	0.006	0.00	0	ng/L
Endrin	0.008	0.00	0	ng/L
hexachlorocyclohexanes *(HCH)	0.025	0	0	ng/L
* (all as Lindane, the gamma isomer)				
Acrolein	17.6	0.00	0	ug/L
Antimony	56.6	0.00	0.0	ug/L
Bis(2-chloroethoxy) methane	1.5	0.00	0	ug/L
Bis(2-chloroisopropyl) ether	1.61	0.00	0	ug/L
Chlorobenzene	1.7	0.00	0.0	ug/L
Chromium (III)	--	--		
di-n-butyl phthalate	1.33	0.00	0	ug/L
dichlorobenzenes	2.8	0.01	0.03	ug/L
1,1-dichloroethylene	0.79	0.00	0	ug/L
Diethyl phthalate	6.23	1.44	6.8	ug/L
Dimethyl phthalate	1.59	0.00	0	ug/L
4,6-dinitro-2-methylphenol	6.8	0.00	0	ug/L
2,4-dinitrophenol	11.9	0.00	0	ug/L
Ethylbenzene	2.04	0.06	0.3	ug/L
Fluoranthene	0.62	0.00	0	ug/L
Hexachlorocyclopentadiene	-	0.00	0	ug/L

Constituent/Property	Benchmarks (mt/yr)	2009 Mass Emissions (mt/yr)	2009 Concentration	Units
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0.0	ug/L
Toluene	3.31	0.34	1.6	ug/L
1,1,2,2-tetrachloroethane	1.95	0.00	0	ug/L
Tributyltin	0.001	0.00	0	ug/L
1,1,1-trichloroethane	2.51	0.00	0	ug/L
1,1,2-trichloroethane	1.42	0.00	0	ug/L
Acrylonitrile	5.95	0.00	0	ug/L
Aldrin	0.006	0.00	0	ng/L
Benzene	1.25	0.00	0	ug/L
Benzidine	12.5	0.00	0	ug/L
Beryllium	1.42	0.001	0.003	ug/L
Bis(2-chloroethyl) ether	1.61	0.00	0	ug/L
Bis(2-ethylhexyl) phthalate	2.89	0.00	0.0	ug/L
Carbon Tetrachloride	0.79	0.00	0	ug/L
Chlordane	0.014	0.0000	0	ng/L
Chloroform	2.19	1.10	5.2	ug/L
DDT	0.043	0.00	0	ng/L
1,4-dichlorobenzene	1.25	0.08	0.4	ug/L
3,3-dichlorobenzidine	4.67	0.00	0	ug/L
1,2-dichloroethane	0.79	0.00	0	ug/L
Dichloromethane (methylene chloride)	13.7	0.57	2.7	ug/L
1,3-dichloropropene	1.42	0.00	0	ug/L
Dieldrin	0.011	0.00	0	ng/L
2,4-dinitrotoluene	1.61	0.00	0	ug/L
1,2-diphenylhydrazine	1.52	0.00	0	ug/L
Halomethanes	5.86	1.50	7.1	ug/L
Heptachlor	0.001	0.00	0	ng/L
Heptachlor epoxide	0.024	0.00	0	ng/L
Hexachlorobenzene	0.54	0.00	0	ug/L
Hexachlorobutadiene	0.054	0.00	0	ug/L
Hexachloroethane	1.13	0.00	0	ug/L
Isophorone	0.71	0.00	0	ug/L
N-nitrosodimethylamine	0.76	0.00	0	ug/L
N-nitrosodiphenylamine	1.47	0.00	0	ug/L
PAHs	15.45	0.00	0	ug/L
PCBs	0.275	0.00	0	ng/L
TCDD equivalents	--	0.000000000	0.000	pg/L
Tetrachloroethylene	4	0.00	0	ug/L
Toxaphene	0.068	0.00	0	ng/L
Trichloroethylene	1.56	0.00	0	ug/L
2,4,6-trichlorophenol	0.96	0.00	0	ug/L
Vinyl Chloride	0.4	0.00	0	ug/L

## B. Discharge Limits

### NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 effective on September 13, 2002 with limits on pollutant discharges.

The discharge of waste through the Point Loma Ocean Outfall containing pollutants in excess of the following effluent limitations are prohibited:

NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 as modified by addendum 2 to the order

Constituent	Units	6-month Median	30-day Average	7-Day Average	Daily Maximum	Instantaneous Maximum
Biochemical Oxygen Demand BOD <sub>5</sub> @ 20°C	mg/L	The "Mean Annual Percent Removal" limit for BOD is 58%. There is no mass emission limit.				
Total Suspended Solids <sup>8</sup>	mg/L lb/day		75 13,599			
pH	pH units	Within the limits of 6.0 - 9.0 at all times.				
Grease & Oil	mg/L lb/day		25 34,000	40 68,000		75 130,000
Settleable Solids	mL/L		1.0	1.5		3.0
Turbidity	NTU		75	100		225
Acute Toxicity	TUa				6.5	
Arsenic	ug/L	1,000			5,900	16,000
Cadmium	ug/L	200			800	2,100
Chromium <sup>9</sup> (Hexavalent)	ug/L	400			2,000	4,100
Copper	ug/L	200			2,100	5,700
Lead	ug/L	400			2,000	4,100
Mercury	ug/L	8.1			33	80
Nickel	ug/L	1,000			4,100	10,000
Selenium	ug/L	3,100			12,000	30,800
Silver	ug/L	100			540	1,000
Zinc	ug/L	2,500			15,000	39,400
Cyanide	mg/L	0.2			0.8	2.1
Total Residual Chlorine(TRC)	mg/L	0.400			2.0	12
Ammonia (expressed as Nitrogen)	mg/L	123			492	1,230
Chronic Toxicity	TUc				205	
Phenolic Compounds (non- chlorinated)	ug/L	6,200			24,600	61,500
Chlorinated Phenolics	ug/L	200			800	2,100
Endosulfan	ng/L	2,000			3,700	5,500
Endrin	ng/L	400			800	1,000
HCH (hexachlorocyclohexanes)	ng/L lb/day	800			2,000	2,500

<sup>8</sup> Total Suspended Solids (TSS)- The discharger shall achieve a mass emission of TSS of no greater than 15,000 mt/yr; this requirement shall be effective through December 31, 2005. Effective January 1, 2006, the discharger shall achieve a mass emission of TSS of no greater than 13,599 mt/yr. These mass emission requirements shall only apply to TSS discharged from POTWs which are owned and operated by the discharger, and the discharger's wastewater generated in the Metro System service area. These mass emission requirements do not apply to wastewater (and the resulting TSS) generated in Mexico as a result of upset or shutdown and treated at and discharged from the PLMWTP.

<sup>9</sup> Hexavalent Chromium limit met as Total Chromium.

LIMITATIONS FOR PROTECTION OF  
HUMAN HEALTH--NONCARCINOGENS

Constituent	Units	Monthly Average (30-Day)
Acrolein	ug/L	45,000
Antimony	ug/L	250,000
Bis(2-chloroethoxy) methane	ug/L	900
Bis(2-chloroisopropyl) ether	ug/L	250,000
Chlorobenzene	ug/L	120,000
Chromium (III) <sup>10</sup>	ug/L	39,000,000
di-n-butyl phthalate	ug/L	720,000
dichlorobenzenes	ug/L	1,000,000
Diethyl phthalate	ug/L	6,800,000
Dimethyl phthalate	ug/L	170,000,000
4,6-dinitro-2-methylphenol	ug/L	45,000
2,4-dinitrophenol	ug/L	820
Ethylbenzene	ug/L	840,000
Fluoranthene	ug/L	3,100
Hexachlorocyclopentadiene	ug/L	12,000
Nitrobenzene	ug/L	1,000
Thallium	ug/L	400
Toluene	ug/L	17,000,000
Tributyltin	ug/L	0.29
1,1,1-trichloroethane	ug/L	110,000,000

LIMITATIONS FOR PROTECTION OF  
HUMAN HEALTH—CARCINOGENS

Constituent	Units	Monthly Average (30-Day)
Acrylonitrile	ug/L	21
Aldrin	ng/L	4.5
Benzene	ug/L	1,200
Benzidine	ug/L	0.014
Beryllium	ug/L	6.8
Bis(2-chloroethyl)ether	ug/L	9.2
Bis(2-ethylhexyl)phthalate	ug/L	720
Carbon Tetrachloride	ug/L	180
Chlordane	ng/L	4.7
Chloroform	ug/L	27,000
DDT	ng/L	35
1,1,2,2-tetrachloroethane	ug/L	470
1,1-dichloroethylene	ug/L	200
1,1,2-trichloroethane	ug/L	1,900
1,4-dichlorobenzene	ug/L	3,700
3,3-dichlorobenzidine	ug/L	1.7
1,2-dichloroethane	ug/L	5,700
Dichloromethane	ug/L	92,000
1,3-dichloropropene	ug/L	1,800
Dieldrin	ng/L	8.20
2,4-dinitrotoluene	ug/L	530
1,2-diphenylhydrazine	ug/L	33
Halomethanes	ug/L	27,000
Heptachlor	ng/L	10
Hexachlorobenzene	ug/L	0.043
Hexachlorobutadiene	ug/L	2,900
Hexachloroethane	ug/L	510
Isophorone	ug/L	150,000
N-nitrosodimethylamine	ug/L	1,500
N-nitrosodiphenylamine	ug/L	510
PAHs	ug/L	1.80
PCBs	ng/L	3.90
TCDD equivalents	pg/L	0.8
Tetrachloroethylene	ug/L	410
Toxaphene	ng/L	430
Trichloroethylene	ug/L	5,500
Vinyl Chloride	ug/L	7,400

<sup>10</sup> Chromium (III) limit is met by Total Chromium.

## C. Influent and Effluent Data Summaries

The results of all analyses performed on the WWTP influent and effluent are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated.

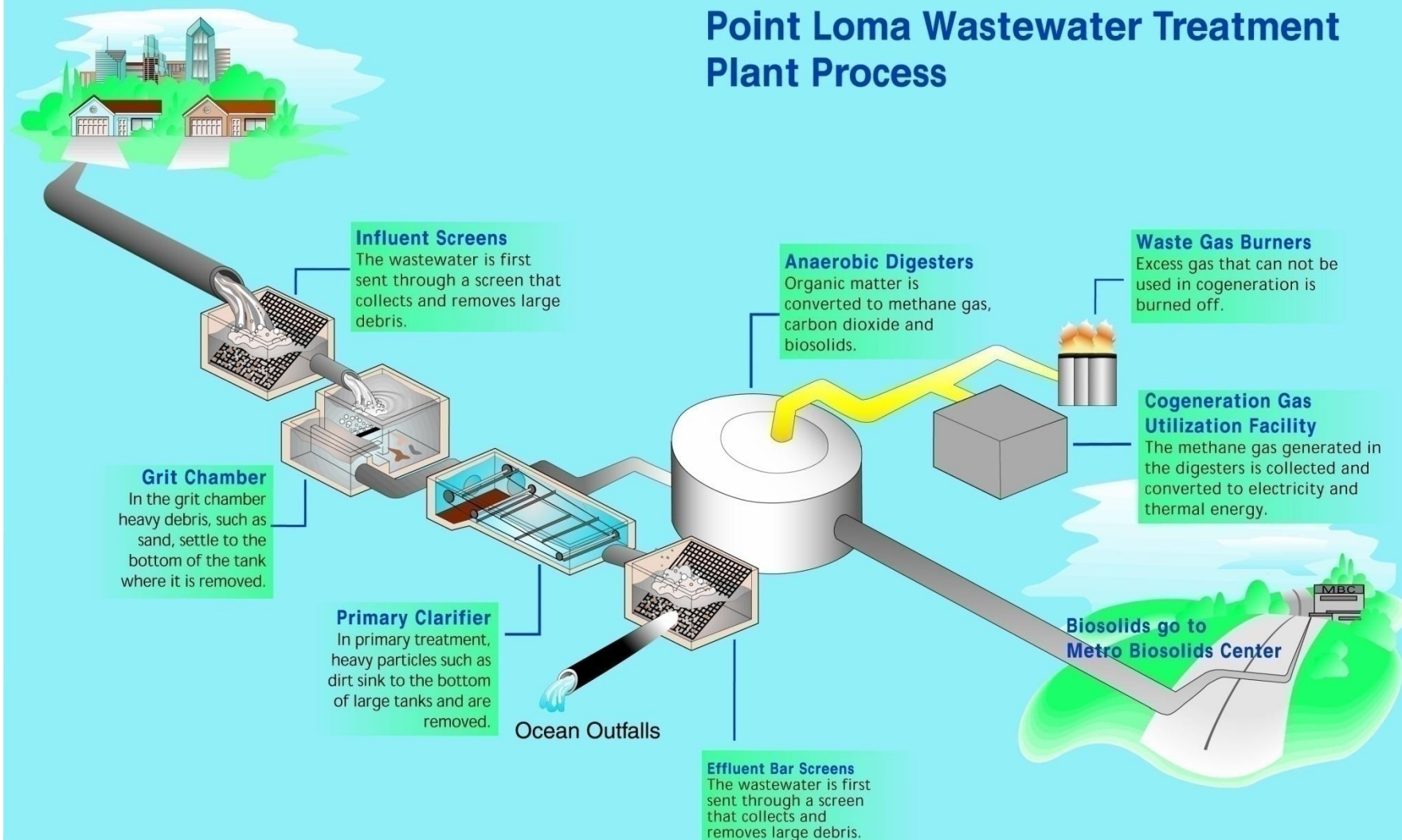
### October 30<sup>th</sup>, 2009 Anomalous Effluent Data

The 24-hour effluent composite sample for October 30th, 2009 has been abstracted in this report. Extreme and uncharacteristically high values for TSS and BOD determinations, 580mg/L and 267 mg/L respectively, were obtained on the October 30th, 2009 effluent composite sample. These data points are inconsistent with real-time process monitoring data and are magnitudes higher than past annual maximum values for this sample stream and are considered to be erroneous outliers.

These anomalous data points would result in negative daily removals. Effluent values elevated to this extreme level would indicate a catastrophic failure of plant processes, which would have been noticed by plant staff, documented by automated plant process monitoring equipment and recorded as data in the Distributed Control System (DCS). An immediate and thorough investigation of plant operational data and logs, as well as, laboratory records show no such failures; all measures indicate plant operating within nominal parameters.

Utilization of these data points would have resulted in monthly system wide adjusted removals for BOD and TSS of 67.9% and 85.6% respectively, while demonstrating compliance with the permit limits the use of the extraneous data points for the October 30th, 2009 effluent composite sample would not accurately portray the removals and would bias statistical analyses. Last year's average BOD and TSS values were used in calculation of the system-wide removals as stipulated in the permit in place of the anomalous data.

# Point Loma Wastewater Treatment Plant Process



# Point Loma Wastewater Treatment Plant





POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL

From 01-JAN-2009 To 31-DEC-2009

Biochemical Oxygen Demand Concentration

	Flow	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
JANUARY -2009	162.9	272	369535	101	137217	62.9
FEBRUARY -2009	175.9	256	375554	97	142300	62.1
MARCH -2009	158.0	290	382139	100	131772	65.5
APRIL -2009	151.8	292	369676	94	119005	67.8
MAY -2009	148.7	292	362126	103	127736	64.7
JUNE -2009	148.0	309	381405	98	120963	68.3
JULY -2009	148.2	292	360908	95	117419	67.5
AUGUST -2009	148.3	298	368573	102	126156	65.8
SEPTEMBER-2009	149.3	296	368568	97	120781	67.2
OCTOBER -2009	148.8	303	376021	102	126581	66.3
NOVEMBER -2009	143.1	310	369971	106	126506	65.8
DECEMBER -2009	156.1	289	376242	110	143206	61.9
Average	153.3	292	371727	100	128304	65.5

Total Suspended Solids Concentration

	Flow	Daily Influent TSS (mg/L)	Daily Influent VSS (mg/L)	Percent VSS of TSS (%)	Daily Influent Value (lbs/Day)	Daily Effluent TSS (mg/L)	Daily Effluent VSS (mg/L)	Percent VSS of TSS (%)	Daily Effluent Value (lbs/Day)
JANUARY -2009	162.9	279	241	86.4	379045	30	23	76.7	40758
FEBRUARY -2009	175.9	263	224	85.2	385823	29	22	75.9	42543
MARCH -2009	158.0	303	259	85.5	399269	31	23	74.2	40849
APRIL -2009	151.8	317	276	87.1	401326	29	23	79.3	36714
MAY -2009	148.7	324	280	86.4	401811	32	24	75.0	39685
JUNE -2009	148.0	330	281	85.2	407326	30	23	76.7	37030
JULY -2009	148.2	317	270	85.2	391808	31	24	77.4	38316
AUGUST -2009	148.3	326	277	85.0	403204	34	27	79.4	42052
SEPTEMBER-2009	149.3	323	275	85.1	402187	33	25	75.8	41090
OCTOBER -2009	148.8	308	262	85.1	382226	31	23	74.2	38471
NOVEMBER -2009	143.1	306	257	84.0	365197	32	24	75.0	38191
DECEMBER -2009	156.1	300	253	84.3	390562	36	28	77.8	46867
Average	153.3	308	263		392482	32	24		40214

	Percent Removal TSS (%)	Percent Removal VSS (%)
JANUARY -2009	89.2	90.5
FEBRUARY -2009	89.0	90.2
MARCH -2009	89.8	91.1
APRIL -2009	90.9	91.7
MAY -2009	90.1	91.4
JUNE -2009	90.9	91.8
JULY -2009	90.2	91.1
AUGUST -2009	89.6	90.3
SEPTEMBER-2009	89.8	90.9
OCTOBER -2009	89.9	91.2
NOVEMBER -2009	89.5	90.7
DECEMBER -2009	88.0	88.9
Average	89.7	90.8

Annual Mass Emissions are calculated from monthly averages of flow and TSS, whereas Monthly Report average mass emissions are calculated from average daily mass emissions.

POINT LOMA WASTEWATER TREATMENT PLANT

Systemwide BOD Removals - 2009

MONTH	Pt. Loma Influent Mass Emissions	NCWRP PS64 Mass Emissions	NCWRP Penasquitos Mass Emissions	MBC Return Mass Emissions	NCWRP Return Mass Emissions	Total Return Mass Emissions	Pt. Loma Effluent Mass Emissions	System wide Adjusted BOD Removals	Pt. Loma Daily BOD Removals	Pt. Loma Daily BOD Eff Conc.
09-01	369,460	29,594	8,868	8,560	6,165	14,725	137,170	65.0	62.7	101
09-02	374,507	23,007	13,295	4,327	7,126	11,453	142,223	64.3	62.0	97
09-03	382,029	33,924	14,584	4,701	19,997	24,698	131,805	67.3	65.4	100
09-04	369,427	29,912	14,460	5,624	7,145	12,769	119,452	70.2	67.6	94
09-05	361,805	29,206	12,945	6,583	12,719	19,302	126,898	66.9	64.9	102
09-06	380,968	32,307	11,561	7,388	3,708	11,096	120,928	70.7	68.1	98
09-07	360,279	32,721	10,246	7,026	17,796	24,822	117,485	68.2	67.3	95
09-08	369,155	28,722	15,853	7,209	1,708	8,917	125,764	68.9	65.8	102
09-09	368,130	29,829	15,505	7,045	2,819	9,864	120,675	70.0	67.1	97
09-10	375,603	30,656	16,209	5,113	8,178	13,291	126,299	69.0	66.2	102
09-11	370,036	31,574	16,056	8,159	15,099	23,258	126,814	67.6	65.5	106
09-12	372,907	26,978	15,887	4,636	12,483	17,119	141,791	64.3	61.7	109
avg	371,192	29,869	13,789	6,364	9,579	15,943	128,109	67.7	65.4	100.3

POINT LOMA WASTEWATER TREATMENT PLANT

Systemwide TSS Removals - 2009

MONTH	Pt. Loma Influent Mass Emissions	NCWRP PS64 Mass Emissions	NCWRP Penasquitos Mass Emissions	MBC Return Mass Emissions	NCWRP Return Mass Emissions	Total Return Mass Emissions	Pt. Loma Effluent Mass Emissions	System wide Adjusted TSS Removals	Pt. Loma Daily TSS Removals	Pt. Loma Daily TSS Eff Conc.
09-01	379,657	31,965	14,845	28,463	10,518	38,981	41,479	89.1	89.0	31
09-02	383,727	23,581	20,573	10,754	11,180	21,934	41,993	89.7	89.1	29
09-03	399,162	29,684	19,063	8,839	24,171	33,011	40,033	90.3	89.9	30
09-04	401,459	27,922	20,268	14,440	9,881	24,320	37,187	91.2	90.7	29
09-05	401,505	29,928	20,077	24,192	26,372	50,563	39,298	89.9	90.1	32
09-06	407,568	31,497	18,146	24,415	7,553	31,968	37,303	91.1	90.8	30
09-07	391,173	32,736	13,295	18,800	24,734	43,535	38,852	86.6	90.0	31
09-08	402,658	29,172	22,561	22,454	2,978	25,432	42,360	89.9	89.2	34
09-09	401,211	32,117	22,484	26,303	6,010	32,313	40,785	90.2	89.7	33
09-10	382,775	25,813	28,468	13,340	15,967	29,307	38,017	90.6	90.0	31
09-11	365,391	29,391	20,223	17,400	15,708	33,108	37,831	89.9	89.5	32
09-12	388,615	27,042	22,754	13,238	32,357	45,595	47,166	86.7	87.7	36
avg	392,075	29,237	20,230	18,553	15,619	34,172	40,192	89.6	89.6	31.5

Annual mass emissions are calculated from monthly averages of flow and TSS, whereas Monthly Report average mass emissions are calculated from average daily mass emissions.

The mass emission for the Return Stream is calculated using data from four NCWRP sources (plant drain, filter backwash, excess primary effluent, and disinfected final effluent that is not reclaimed) and one MBC source (centrate from the dewatering process) that are diverted to the Return Stream.

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2009 To 31-DEC-2009

Effluent to Ocean Outfall  
(PLE)

		pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature ( C )	Floating Particulates (mg/L)	Turbidity (NTU)
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009		7.22	0.1	101	10.0	23.3	ND	36
FEBRUARY -2009		7.26	<0.1	97	8.3	23.0	ND	32
MARCH -2009		7.25	0.1	100	8.4	23.3	ND	35
APRIL -2009		7.25	0.2	94	8.0	23.8	ND	33
MAY -2009		7.23	0.3	103	8.3	25.1	ND	39
JUNE -2009		7.18	0.4	98	9.4	25.8	ND	35
JULY -2009		7.17	0.4	95	9.7	27.1	ND	39
AUGUST -2009		7.18	0.5	102	11.2	27.9	ND	43
SEPTEMBER-2009		7.18	0.3	97	9.2	28.4	ND	41
OCTOBER -2009		7.17	0.5	102	9.6	27.2	ND	43
NOVEMBER -2009		7.16	0.4	106	11.5	26.1	ND	43
DECEMBER -2009		7.19	0.1	110	11.0	24.0	ND	37
=====	=====	=====	=====	=====	=====	=====	=====	=====
Average		7.20	0.3	100	9.6	25.4	ND	38

Influent to Plant  
(PLR)

		pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature ( C )	Floating Particulates (mg/L)	Turbidity (NTU)
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009		7.38	14.10	272	41.9	23.1	<1.40	136
FEBRUARY -2009		7.46	15.10	256	38.8	22.9	1.60	134
MARCH -2009		7.43	15.10	290	42.4	23.2	1.73	143
APRIL -2009		7.42	15.60	292	42.8	23.8	<1.40	143
MAY -2009		7.39	18.30	292	50.4	25.0	<1.40	142
JUNE -2009		7.31	17.00	309	48.4	25.7	<1.40	146
JULY -2009		7.31	18.90	292	47.4	27.1	<1.40	144
AUGUST -2009		7.31	17.70	298	43.4	28.1	<1.40	140
SEPTEMBER-2009		7.32	17.80	296	45.6	28.2	<1.40	139
OCTOBER -2009		7.29	17.20	303	44.6	27.3	<1.40	144
NOVEMBER -2009		7.28	17.60	310	50.9	26.1	<1.40	139
DECEMBER -2009		7.33	16.00	289	45.7	24.1	1.94	137
=====	=====	=====	=====	=====	=====	=====	=====	=====
Average		7.35	16.7	292	45.2	25.4	0.4	141

ND=not detected  
NS=not sampled  
NA=not analyzed.

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Trace Metals  
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2009 to: 31-DEC-2009

Analyte:	Antimony		Arsenic		Beryllium		Cadmium	
MDL	2.9	2.9	.4	.4	.022	.022	.53	.53
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	ND	ND	1.00	0.71	ND	ND	ND	ND
FEBRUARY -2009	ND	ND	1.19	0.81	0.046	<0.022	ND	ND
MARCH -2009	ND	ND	1.03	0.47	0.028	ND	ND	ND
APRIL -2009	ND	ND	1.19	0.69	0.036	ND	ND	ND
MAY -2009	ND	ND	1.22	0.84	<0.022	<0.022	ND	ND
JUNE -2009	ND	ND	0.95	0.75	<0.022	ND	ND	ND
JULY -2009	ND	ND	1.09	0.71	<0.022	ND	ND	ND
AUGUST -2009	ND	ND	1.57	1.13	<0.022	ND	ND	ND
SEPTEMBER-2009	<2.9	<2.9	1.51	1.10	<0.022	ND	<0.53	ND
OCTOBER -2009	<2.9	<2.9	1.19	0.80	0.054	<0.022	<0.53	ND
NOVEMBER -2009	ND	ND	1.00	0.78	<0.022	<0.022	ND	<0.53
DECEMBER -2009	ND	ND	1.13	0.71	0.049	0.038	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.0	0.0	1.17	0.79	0.018	0.003	0.00	0.00

Analyte:	Chromium		Copper		Iron		Lead	
MDL	1.2	1.2	2.0	2.0	37	37	2.0	2.0
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	7.4	<1.2	87.7	22.2	5550	2670	<2.0	ND
FEBRUARY -2009	8.3	2.6	111	33.8	5390	2260	3.3	ND
MARCH -2009	5.3	1.9	103	30.1	5710	2350	<2.0	ND
APRIL -2009	8.0	1.8	107	14.5	6520	2170	2.9	ND
MAY -2009	8.4	3.8	126	19.0	6920	3960	3.4	ND
JUNE -2009	6.4	1.6	115	17.1	7330	2570	3.8	ND
JULY -2009	6.6	<1.2	121	20.8	7440	2310	3.6	ND
AUGUST -2009	5.5	1.8	101	18.9	5810	2460	3.1	ND
SEPTEMBER-2009	7.1	<1.2	105	17.4	5940	2010	ND	ND
OCTOBER -2009	7.5	1.9	137	17.9	8200	2260	3.2	ND
NOVEMBER -2009	7.3	2.1	83.6	14.5	7480	2620	<2.0	ND
DECEMBER -2009	5.9	1.7	90.2	16.7	5830	2270	<2.0	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	7.0	1.6	107.3	20.2	6510	2493	1.9	ND

ND= not detected  
NA= not analyzed  
NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Trace Metals  
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2009 to: 31-DEC-2009

Analyte:	Mercury	Mercury	Nickel	Nickel	Selenium	Selenium	Silver	Silver
MDL	.09	.09	.53	.53	.28	.28	.4	.4
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	0.10	ND	12.5	7.3	1.79	1.28	0.6	ND
FEBRUARY -2009	ND	ND	14.3	10.3	1.95	1.51	1.7	ND
MARCH -2009	ND	ND	7.6	6.1	2.30	1.63	1.1	<0.4
APRIL -2009	0.14	ND	10.9	7.2	2.46	1.67	1.9	<0.4
MAY -2009	0.13	ND	12.5	9.4	2.08	1.40	1.6	<0.4
JUNE -2009	0.26	ND	9.9	6.9	1.90	1.24	1.1	ND
JULY -2009	0.25	ND	10.8	6.1	2.02	1.27	1.6	ND
AUGUST -2009	0.19	ND	8.9	6.0	1.87	1.28	0.8	ND
SEPTEMBER-2009	0.23	ND	13.4	8.4	1.89	1.18	1.3	0.4
OCTOBER -2009	0.09	ND	14.0	6.7	1.70	0.89	1.1	ND
NOVEMBER -2009	<0.09	ND	12.3	7.3	1.48	1.15	0.8	ND
DECEMBER -2009	0.09	<0.09	9.3	5.7	1.81	1.40	0.9	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.12	0.00	11.4	7.3	1.94	1.33	1.2	0.03

Analyte:	Thallium	Thallium	Zinc	Zinc
MDL	3.9	3.9	2.5	2.5
Units	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====
JANUARY -2009	ND	ND	139	33
FEBRUARY -2009	ND	ND	151	33
MARCH -2009	ND	ND	137	26
APRIL -2009	ND	ND	151	22
MAY -2009	ND	ND	166	22
JUNE -2009	ND	ND	151	20
JULY -2009	ND	ND	158	21
AUGUST -2009	ND	ND	139	25
SEPTEMBER-2009	ND	ND	142	20
OCTOBER -2009	ND	ND	211	23
NOVEMBER -2009	ND	ND	120	19
DECEMBER -2009	ND	ND	126	22
=====	=====	=====	=====	=====
AVERAGE	ND	ND	149	24

ND= not detected  
NA= not analyzed  
NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Ammonia-Nitrogen and Total Cyanides  
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2009 to: 31-DEC-2009

	Ammonia-N .3 MG/L PLR	Ammonia-N .3 MG/L PLE	Cyanides,Total .002 MG/L PLR	Cyanides,Total .002 MG/L PLE
Limit:		123		0.200
JANUARY -2009	29.7	29.3	0.002	<0.002
FEBRUARY -2009	29.7	29.0	ND	<0.002
MARCH -2009	31.6	30.5	0.002	0.003
APRIL -2009	33.8	33.2	<0.002	0.002
MAY -2009	33.4	32.2	<0.002	0.002
JUNE -2009	34.2	33.0	<0.002	0.002
JULY -2009	33.6	32.5	<0.002	<0.002
AUGUST -2009	32.1	31.0	<0.002	<0.002
SEPTEMBER-2009	31.8	30.8	<0.002	0.010
OCTOBER -2009	33.3	32.2	ND	0.002
NOVEMBER -2009	35.8	34.6	<0.002	0.002
DECEMBER -2009	30.2	29.9	0.002	0.002
Average:	32.4	31.5	0.001	0.002

Chlorine Residual, Total  
.03 MG/L  
PLE

Limit:	
JANUARY -2009	<0.03
FEBRUARY -2009	0.06
MARCH -2009	ND
APRIL -2009	ND
MAY -2009	ND
JUNE -2009	ND
JULY -2009	ND
AUGUST -2009	<0.03
SEPTEMBER-2009	ND
OCTOBER -2009	ND
NOVEMBER -2009	ND
DECEMBER -2009	<0.03
Average:	0.01

ND= not detected  
NA= not analyzed  
NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Radioactivity

From: 01-JAN-2009 To: 31-DEC-2009

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
=====	=====	=====	=====
PLR	JANUARY -2009	3.9±2.9	29.9±7.8
PLR	FEBRUARY -2009	3.4±2.8	29.9±6.2
PLR	MARCH -2009	5.8±3.6	28.3±6.1
PLR	APRIL -2009	5.9±3.6	28.8±6.8
PLR	MAY -2009	0.6±4.4	30.7±7.9
PLR	JUNE -2009	2.7±3.1	29.1±7.2
PLR	JULY -2009	4.2±4.5	31.6±8.0
PLR	AUGUST -2009	2.4±3.6	33.5±7.8
PLR	SEPTEMBER-2009	4.4±3.6	31.9±8.2
PLR	OCTOBER -2009	2.8±3.4	32.7±8.0
PLR	NOVEMBER -2009	2.9±3.6	32.1±7.7
PLR	DECEMBER -2009	4.0±3.6	39.2±10.5
=====	=====	=====	=====
AVERAGE		3.6±3.5	31.5±7.7

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
=====	=====	=====	=====
PLE	JANUARY -2009	1.0±1.6	27.0±5.7
PLE	FEBRUARY -2009	4.8±3.0	29.5±6.4
PLE	MARCH -2009	5.1±3.3	28.7±6.2
PLE	APRIL -2009	2.8±3.2	32.6±7.1
PLE	MAY -2009	0.0±3.3	32.3±6.6
PLE	JUNE -2009	2.6±3.7	25.9±6.1
PLE	JULY -2009	3.3±3.4	30.2±6.7
PLE	AUGUST -2009	4.0±3.6	34.5±7.4
PLE	SEPTEMBER-2009	3.7±4.0	37.0±8.8
PLE	OCTOBER -2009	1.3±2.5	34.8±7.9
PLE	NOVEMBER -2009	0.6±3.1	36.1±7.8
PLE	DECEMBER -2009	6.4±4.1	37.5±11.0
=====	=====	=====	=====
AVERAGE		3.0±3.2	32.2±7.3

ND= not detected

NA= not analyzed

NS= not sampled

Units in picocuries/liter (pCi/L)

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2009 To 31-DEC-2009

Effluent

Analyte	MDL	Units	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
=====															
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND	ND	<5	ND	ND	ND	ND	0
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	<5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	<2	ND	ND	ND	ND	ND	ND	ND	ND	0
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
=====															
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	6	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Heptachlors	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0

ND= not detected

NA= not analyzed



POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2009 To 31-DEC-2009

Influent

Analyte	MDL	Units	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
=====															
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	<5	ND	ND	ND	ND	ND	ND	ND	ND	0
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	13	ND	6	14	ND	ND	ND	ND	<4	ND	ND	3
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	0
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
=====															
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	8	NG/L	0	13	0	6	14	0	0	0	0	0	0	0	3
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	6	NG/L	0	0	0	2	0	0	0	0	0	0	0	0	0
=====															
Heptachlors	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Chlorinated Hydrocarbons	4000	NG/L	0	13	0	8	14	0	0	0	0	0	0	0	3

ND= not detected

NA= not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
ANNUAL SUMMARY

Organophosphorus Pesticides

From 01-JAN-2009 To 31-DEC-2009

		PLE	PLE	PLR	PLR
		05-MAY-2009	06-OCT-2009	05-MAY-2009	06-OCT-2009
Analyte	MDL Units	P468671	P490472	P468676	P490477
=====		=====	=====	=====	=====
Demeton O	.15 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.03 UG/L	0.3	ND	0.2	ND
Parathion	.03 UG/L	ND	ND	ND	ND
=====		=====	=====	=====	=====
Thiophosphorus Pesticides	.15 UG/L	0.3	0.0	0.2	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0
=====		=====	=====	=====	=====
Total Organophosphorus Pesticides	.3 UG/L	0.3	0.0	0.2	0.0
=====		=====	=====	=====	=====
Bolstar	.07 UG/L	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND

ND=not detected

NS=not sampled

NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE MONTHLY - Tributyl Tin analysis

From 01-JAN-2009 To 31-DEC-2009

Effluent

Analyte	MDL	Units	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
=====	===	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Influent

Analyte	MDL	Units	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
=====	===	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL - Acid Extractables

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	Average
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	14.2	13.2	15.1	15.9	15.6	13.1	15.5	14.4	12.0	15.8	15.1	12.7	14.4
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	14.2	13.2	15.1	15.9	15.6	13.1	15.5	14.4	12.0	15.8	15.1	12.7	14.4
Phenols	2.16	UG/L	14.2	13.2	15.1	15.9	15.6	13.1	15.5	14.4	12.0	15.8	15.1	12.7	14.4

Additional analytes determined;

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	Average
2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	41.2	30.2	46.0	35.0	32.9	27.5	32.6	28.8	15.8	30.2	31.3	35.7	32.3
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	Average
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	15.7	16.2	16.9	17.0	18.3	19.0	20.5	21.2	20.2	22.4	20.7	17.1	18.8
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	15.7	16.2	16.9	17.0	18.3	19.0	20.5	21.2	20.2	22.4	20.7	17.1	18.8
Phenols	2.16	UG/L	15.7	16.2	16.9	17.0	18.3	19.0	20.5	21.2	20.2	22.4	20.7	17.1	18.8

Additional analytes determined;

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	Average
2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	48.6	45.6	54.4	38.4	43.2	41.5	41.9	43.1	40.7	50.0	49.1	47.0	45.3
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	ND	7.1	7.1	6.8	8.8	5.7	8.2	7.9	7.2	8.3	7.6	6.3	6.8
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	0.0	7.1	7.1	6.8	8.8	5.7	8.2	7.9	7.2	8.3	7.6	6.3	6.8

Additional analytes determined;

Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND	3.0	4.4	ND	ND	4.3	ND	1.0
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	13.8	14.0	14.2	11.0	10.3	12.6	17.2	11.1	11.7	15.7	9.7	10.6	12.7
Diethyl phthalate	3.05	UG/L	ND	7.4	7.6	6.6	7.5	6.9	9.1	6.7	6.7	7.9	6.8	5.4	6.6
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	13.8	21.4	21.8	17.6	17.8	19.5	29.3	22.2	18.4	23.6	20.8	16.0	20.2

Additional analytes determined;

Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Purgeables  
From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	1.0	1.1	0.9	<0.5	0.7	0.6	0.5	ND	0.6	ND	0.6	0.9	0.6
Bromoform	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	<0.7	ND	ND	2.1	0.7	<0.7	0.7	ND	ND	ND	ND	0.3
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	1.1	ND	ND	ND	2.0	ND	ND	1.4	ND	ND	ND	ND	0.4
Chloroform	.2	UG/L	5.6	5.5	5.8	5.7	5.8	4.3	4.7	5.5	5.3	3.9	4.6	5.8	5.2
Chloromethane	.5	UG/L	9.6	4.9	4.9	5.2	11.6	4.8	5.1	7.9	3.7	7.1	8.1	8.9	6.8
Dibromochloromethane	.6	UG/L	0.8	0.9	0.8	ND	<0.6	ND	ND	ND	ND	ND	0.6	ND	0.3
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	0.0
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	1.3*	0.6	0.6	1.1*	0.8	0.7	0.8	1.5*	0.5	<0.4	<0.4	<0.4	0.4
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	0.7	0.8	0.5	ND	0.5	1.2	0.3	ND	ND	0.3
Methylene chloride	.3	UG/L	1.1	2.7^	1.3^	1.5^	2.4	6.2	1.7	2.0	3.0#	2.0^	2.7	2.6	2.7
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	.4	UG/L	0.6	0.9	0.7	4.8	1.8	0.8	0.8	4.6	1.0	0.8	1.1	0.7	1.6
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	9.6	4.9	4.9	5.2	13.7	5.5	5.1	8.6	3.7	7.1	8.1	8.9	7.1
Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	16.3	10.4	10.7	10.9	19.8	15.3	11.5	15.4	9.0	11.0	15.4	17.3	13.6
Purgeable Compounds	1.3	UG/L	19.8	13.9	13.7	16.4	28.0	18.6	14.0	22.6	12.3	12.1	17.7	18.9	17.3

Additional analytes determined;

Acetone	4.5	UG/L	400	1440	748	1090	2330	1490	662	541	1010	1990	465	581	1062
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	ND	ND	ND	7.1	ND	ND	<6.3	7.8	8.0	ND	7.8	35.0	5.5
Carbon disulfide	.6	UG/L	2.5	2.2	2.9	2.5	2.9	2.0	2.6	3.5	3.4	3.1	1.8	2.4	2.7
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	2.8	1.0	1.3	1.3	1.5	0.8	1.1	0.6	1.0	0.6	0.8	0.7	1.1
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	0.5	ND	1.5	1.5	1.0	ND	0.8	1.2	0.4	0.4	ND	0.6
Styrene	.3	UG/L	ND	0.4	ND	0.6	0.5	0.5	ND	0.5	159.0	ND	2.4	ND	13.7
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	0.8	ND	3.2	3.3	2.0	ND	1.8	<0.6	0.9	0.8	ND	1.1
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	UG/L	ND	ND	ND	<1.3	ND	ND	ND	ND	ND	ND	ND	ND	0.0

\* = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for 1,4-dichlorobenzene are between 0.46 to 0.99 UG/L.

^ = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for Methylene chloride are between 0.34 to 0.73 UG/L.

# = PLE Field blank did not meet QC criteria, field blank value above the MDL, 4.37ug/L of analyte found in field blank.

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Purgeables  
From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	0.6	0.7	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2
Bromoform	.5	UG/L	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	0.1
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	2.4	2.8	3.3	3.3	3.0	3.1	3.3	4.8	4.5	2.8	2.5	2.8	3.2
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	0.6	0.7	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	1.9*	0.7	0.8	1.2*	0.9	0.8	0.9	1.7*	0.9	0.6	0.5	0.5	0.7
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	0.3	0.7	0.5	ND	ND	1.4	ND	0.4	ND	0.3
Methylene chloride	.3	UG/L	1.0	2.2^	1.4^	1.4^	1.6	3.0	1.2	3.5	1.7	1.8^	2.8	1.6	2.1
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	.4	UG/L	0.6	0.9	0.7	2.2	1.3	0.6	0.6	1.0	0.9	0.7	1.0	0.6	0.9
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.1
Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	3.4	2.8	3.3	3.3	4.6	6.1	4.5	8.3	6.2	2.8	5.3	4.4	4.6
Purgeable Compounds	1.3	UG/L	5.2	5.8	6.5	5.8	7.5	8.0	6.7	9.3	9.4	4.1	7.2	5.5	6.8

Additional analytes determined;

Acetone	4.5	UG/L	438	1390	933	482	2940	819	742	286	2930	2910	446	387	1225
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	ND	ND	ND	6.3	ND	ND	ND	ND	8.7	ND	10.5	55.4	6.7
Carbon disulfide	.6	UG/L	1.6	1.3	1.8	1.7	2.3	1.4	1.6	2.7	1.6	2.6	1.4	1.5	1.8
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	4.0	0.5	0.6	1.6	1.0	ND	0.6	ND	ND	ND	0.5	ND	0.7
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	0.5	ND	0.5	1.2	1.0	ND	0.5	2.3	ND	0.6	ND	0.6
Styrene	.3	UG/L	ND	0.4	ND	1.0	0.6	0.7	0.4	0.4	191.0	0.4	2.8	ND	16.5
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	0.9	ND	1.2	3.0	1.9	ND	1.0	2.8	0.6	1.2	0.7	1.1
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

\* = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for 1,4-dichlorobenzene are between 0.46 to 0.99 UG/L.

^ = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for Methylene chloride are between 0.34 to 0.73 UG/L.

# = PLE Field blank did not meet QC criteria, field blank value above the MDL, 4.37ug/L of analyte found in field blank.

nd=not detected; NS=not sampled; NA=not analyzed



POINT LOMA WASTEWATER TREATMENT  
SLUDGE PROJECT - ANNUAL SUMMARY  
Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	Equiv	PLE JAN	PLE FEB	PLE MAR	PLE APR	PLE MAY	PLE JUN	PLE JUL	PLE AUG
				P458011	P458387	P465220	P468381	P468671	P475678	P480147	P481200
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLE SEP	PLE OCT	PLE NOV	PLE DEC
				P489438	P490472	P497185	P499838
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

nd= not detected

NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT  
SLUDGE PROJECT - ANNUAL SUMMARY  
Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
			JAN	FEB	MAR	APR	MAY	JUN	JUL
			P458011	P458387	P465220	P468381	P468671	P475678	P480147
2,3,7,8-tetra CDD	125	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	ND	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	ND	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLE	PLE	PLE	PLE
			TCDD	TCDD	TCDD	TCDD
			SEP	OCT	NOV	DEC
			P489438	P490472	P497185	P499838
2,3,7,8-tetra CDD	125	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	ND	ND	ND	ND
octa CDD	247	PG/L	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	ND	ND	ND	ND
octa CDF	222	PG/L	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.  
nd= not detected  
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT  
SLUDGE PROJECT - ANNUAL SUMMARY  
Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	Equiv	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				P458014	P458392	P465223	P468384	P468676	P475681	P480150	P481205	P489441
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLR	PLR	PLR
				OCT	NOV	DEC
				P490477	P496635	P499841
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND

Above are permit required CDD/CDF isomers.  
nd= not detected  
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT  
SLUDGE PROJECT - ANNUAL SUMMARY  
Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
			TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
			P458014	P458392	P465223	P468384	P468676	P475681	P480150	P481205
			SEP							
			P489441							
2,3,7,8-tetra CDD	125	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR	PLR	PLR
			TCDD	TCDD	TCDD
			OCT	NOV	DEC
			P490477	P496635	P499841
2,3,7,8-tetra CDD	125	PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	ND	ND	ND
octa CDD	247	PG/L	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	ND	ND	ND
octa CDF	222	PG/L	ND	ND	ND

Above are permit required CDD/CDF isomers.  
nd= not detected  
NA= not analyzed NS= not sampled

**2009**  
**Point Loma Treatment Plant**  
**Total Coliforms**

The following are the monthly Total Coliform results of the Point Loma Treatment Plant Effluent. The value is stated in terms of Most Probable Number (MPN) per 100 milliliters of sample.

SAMPLE SOURCE (Pt. Loma Treatment Plant Effluent)

DATE	TOTAL COLIFORM (MPN Index/100ml)
January 29, 2009	45,000
February 24, 2009	1,100,000
March 10, 2009	2,300,000
April 2, 2009	4,900,000
May 19, 2009	2,300,000
June 25, 2009	940,000
July 14, 2009	13,000,000
August 18, 2009	23,000,000
September 15, 2009	2,300,000
October 8, 2009	7,900,000
November 18, 2009	4,900,000
December 1, 2009	7,900,000
Average	5,882,083

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2009 To 31-DEC-2009

MDL:	Total Hardness		Calcium Hardness		Magnesium Hardness		Calcium		Magnesium	
	.4	mg/L	.1	mg/L	.4	mg/L	.04	mg/L	.1	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2009	440	440	214	213	226	227	86	86	55	55
FEBRUARY -2009	433	437	212	214	221	223	85	86	54	54
MARCH -2009	463	461	229	226	235	235	92	91	57	57
APRIL -2009	462	460	228	227	235	233	91	91	57	57
MAY -2009	472	476	228	229	245	247	91	92	59	60
JUNE -2009	443	448	216	218	228	230	86	88	55	56
JULY -2009	454	450	216	216	238	235	87	86	58	57
AUGUST -2009	444	458	205	208	239	250	82	83	58	61
SEPTEMBER-2009	436	436	200	200	235	236	80	80	57	57
OCTOBER -2009	392	397	180	183	212	213	72	73	51	52
NOVEMBER -2009	446	448	209	211	237	237	84	85	57	58
DECEMBER -2009	476	470	232	230	244	240	93	92	59	58
Average:	447	448	214	215	233	234	86	86	56	57

MDL:	Alkalinity		Total Solids		Total Vol. Solids		Conductivity		Fluoride	
	20	mg/L	10	mg/L	100	mg/L	10umhos/cm		.05	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2009	287	271	1990	1760	471	251	2940	3000	0.63	0.66
FEBRUARY -2009	296	280	2040	1800	497	281	3040	3050	0.69	0.73
MARCH -2009	307	293	2150	1880	549	305	3080	3100	0.72	0.73
APRIL -2009	318	304	2150	1870	539	291	3120	3170	0.80	0.83
MAY -2009	318	298	2180	1900	574	319	3150	3190	0.75	0.78
JUNE -2009	320	297	1690	1880	578	804	3080	3120	0.86	0.81
JULY -2009	317	301	2250	1920	605	317	3190	3170	0.67	0.69
AUGUST -2009	306	294	2490	2170	721	436	3410	3450	0.71	0.71
SEPTEMBER-2009	304	293	2420	2110	665	390	3410	3420	0.88	0.90
OCTOBER -2009	296	282	2000	1730	528	284	2980	2990	0.72	0.70
NOVEMBER -2009	318	305	2160	1850	546	294	3200	3170	0.76	0.78
DECEMBER -2009	297	285	2090	1830	521	301	3150	3160	0.66	0.69
Average:	307	292	2134	1892	566	356	3146	3166	0.74	0.75

MDL:	Chloride		Bromide		Sulfate		Nitrate		Ortho Phosphate	
	7	mg/L	.1	mg/L	9	mg/L	.04	mg/L	.2	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2009	573	593	1.31	1.45	268	264	0.11	0.07	5.25	2.97
FEBRUARY -2009	590	609	1.56	1.58	293	288	0.18	0.69	4.62	2.79
MARCH -2009	606	632	1.58	1.64	298	294	ND	0.28	4.43	2.54
APRIL -2009	596	634	1.51	1.52	293	294	0.23	0.72	5.76	3.71
MAY -2009	635	665	1.61	1.63	283	278	0.16	0.14	6.14	2.25
JUNE -2009	631	649	1.57	1.58	274	267	0.17	0.16	6.31	4.64
JULY -2009	671	678	1.40	1.68	272	262	0.17	0.99	6.14	4.90
AUGUST -2009	700	747	1.90	1.98	262	260	0.15	0.16	8.67	6.56
SEPTEMBER-2009	739	755	2.00	1.99	272	263	0.13	0.14	6.77	5.21
OCTOBER -2009	621	639	1.59	1.58	224	215	0.35	0.80	6.91	5.67
NOVEMBER -2009	662	679	1.64	1.65	261	253	0.14	0.86	2.25	2.10
DECEMBER -2009	626	644	1.54	1.57	301	295	0.22	0.48	4.80	3.61
Average:	638	660	1.60	1.65	275	269	0.17	0.46	5.67	3.91

ND=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2009 To 31-DEC-2009

MDL:	Lithium		Sodium		Potassium		Chemical Oxygen Demand		Soluble BOD	
	.002 Inf.	mg/L Eff.	1 Inf.	mg/L Eff.	.3 Inf.	mg/L Eff.	18 Inf.	mg/L Eff.	2 Inf.	mg/L Eff.
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	0.041	0.041	368	380	25.8	25.6	532	227	72	66
FEBRUARY -2009	0.041	0.041	345	357	22.9	23.1	572	241	66	65
MARCH -2009	0.049	0.048	376	386	25.2	25.0	504	214	76	69
APRIL -2009	0.050	0.051	387	394	26.3	26.3	641	202	73	67
MAY -2009	0.046	0.046	406	421	28.2	28.5	643	242	88	73
JUNE -2009	0.045	0.046	389	398	27.1	27.0	603	228	80	68
JULY -2009	0.045	0.044	413	416	28.2	27.9	600	206	74	64
AUGUST -2009	0.047	0.047	437	461	29.7	30.1	615	234	79	64
SEPTEMBER-2009	0.045	0.046	416	422	27.8	27.4	596	214	73	66
OCTOBER -2009	0.037	0.039	383	392	27.1	27.2	615	228	82	72
NOVEMBER -2009	0.042	0.042	409	417	29.5	29.2	710	250	82	77
DECEMBER -2009	0.051	0.051	398	404	26.9	26.8	633	248	71	69
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Average:	0.04	0.05	394	404	27.1	27.0	605	228	76	68

MDL:	Total Dissolved Solids		Floatables		Turbidity		Aluminum		Barium	
	28 Inf.	mg/L Eff.	1.4 Inf.	mg/L Eff.	.13 Inf.	NTU Eff.	47 Inf.	ug/L Eff.	.039 Inf.	ug/L Eff.
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	1760	1770	<1.4	ND	136	36	963	264	101	46
FEBRUARY -2009	1680	1690	1.6	ND	134	32	934	220	108	49
MARCH -2009	1830	1830	1.7	ND	143	35	969	239	107	50
APRIL -2009	1770	1780	<1.4	ND	143	33	857	131	117	48
MAY -2009	1790	1800	<1.4	ND	142	39	1090	220	111	45
JUNE -2009	1810	1840	1.4	ND	146	35	1010	166	102	40
JULY -2009	1830	1840	<1.4	ND	144	39	1050	199	108	46
AUGUST -2009	2100	2120	<1.4	ND	140	43	956	184	95	49
SEPTEMBER-2009	2010	2040	<1.4	ND	139	41	875	179	97	45
OCTOBER -2009	1690	1710	<1.4	ND	144	43	1220	140	106	34
NOVEMBER -2009	1730	1740	<1.4	ND	139	43	721	187	84	39
DECEMBER -2009	1790	1800	1.9	ND	137	37	839	159	100	47
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Average:	1816	1830	0.6	ND	141	38	957	191	103	45

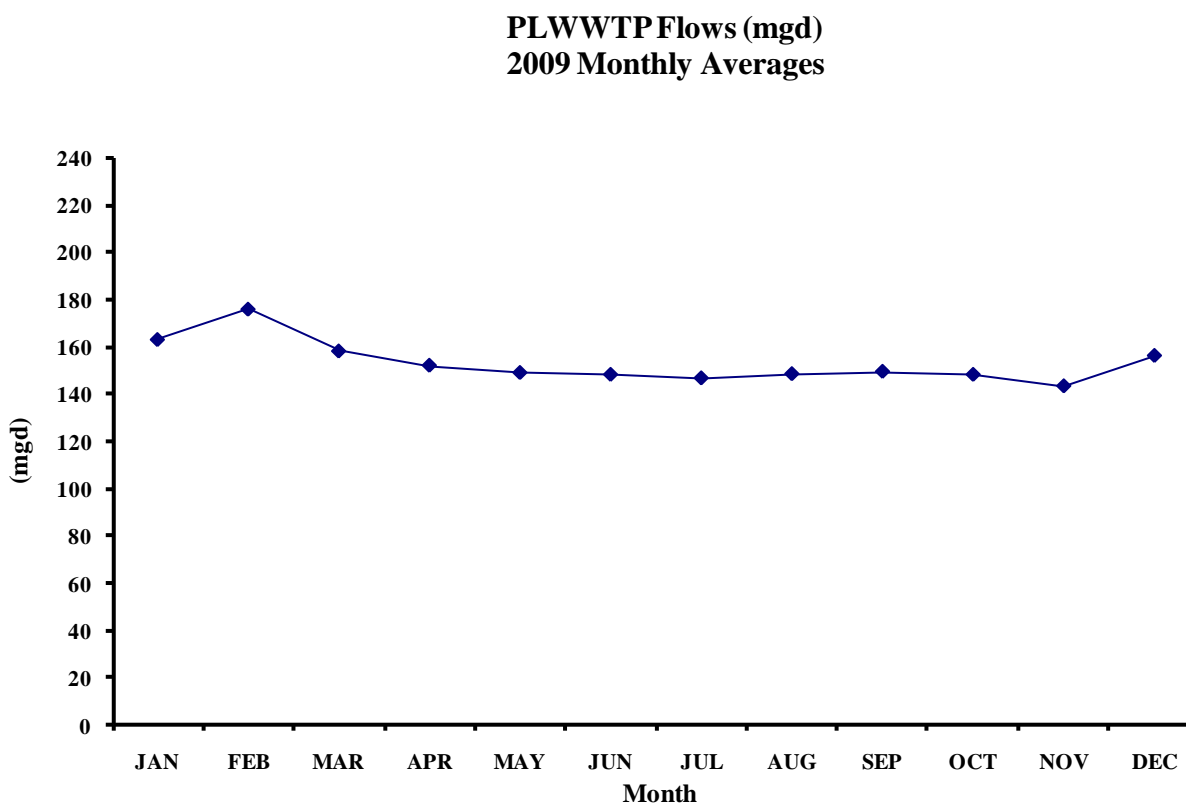
MDL:	Boron		Cobalt		Molybdenum		Manganese		Vanadium	
	7 Inf.	ug/L Eff.	.85 Inf.	ug/L Eff.	.89 Inf.	ug/L Eff.	.24 Inf.	ug/L Eff.	.64 Inf.	ug/L Eff.
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2009	434	414	<0.85	<0.85	11	9	111	104	2.32	ND
FEBRUARY -2009	425	429	<0.85	<0.85	11	10	111	111	3.56	0.69
MARCH -2009	435	444	ND	ND	10	9	112	112	2.96	<0.64
APRIL -2009	433	433	<0.85	ND	11	9	110	103	3.64	0.79
MAY -2009	446	451	1.13	<0.85	13	12	111	110	3.75	0.79
JUNE -2009	428	429	<0.85	ND	12	10	113	107	3.95	<0.64
JULY -2009	434	431	<0.85	ND	13	9	106	95	3.25	<0.64
AUGUST -2009	461	473	<0.85	ND	12	10	100	100	3.63	1.02
SEPTEMBER-2009	442	452	ND	ND	13	11	103	100	3.80	0.70
OCTOBER -2009	452	446	<0.85	ND	12	8	108	92	3.43	ND
NOVEMBER -2009	437	434	ND	ND	11	9	110	105	2.49	0.99
DECEMBER -2009	433	407	<0.85	ND	10	8	112	105	2.94	1.21
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Average:	438	437	0.09	0.00	12	10	109	104	3.31	0.52

ND=not detected; NS=not sampled; NA=not analyzed

## D. Influent and Effluent Graphs

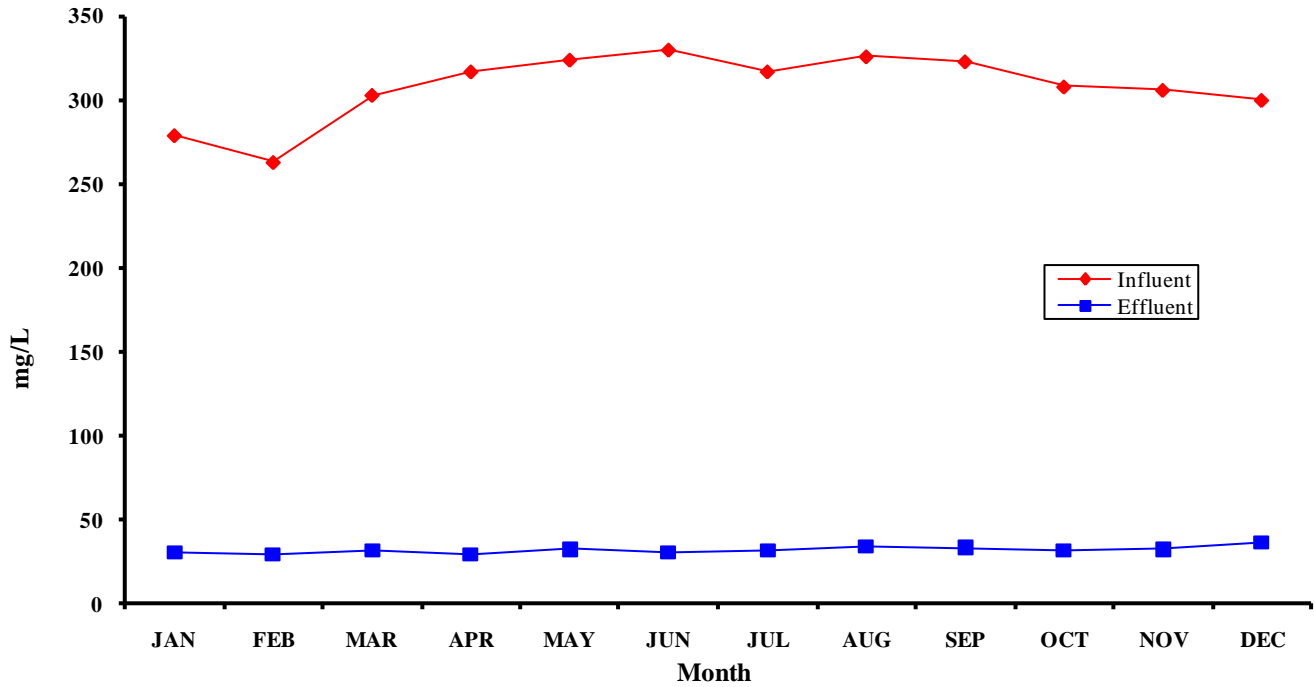
Graphs of monthly averages for permit parameters with measurable concentration averages.

Where possible, the influent and effluent values of a given parameter have been included on the same graph so that removals and other relationships are readily apparent. Please note that many of the graphs are on expanded scales. That is, they may not go to zero concentrations but show, in magnified scale, that range of concentrations where variation takes place. This makes differences and some trends obvious that might normally not be noticed. However, it also provides the temptation to interpret minor changes or trends as being of more significance than they are. Frequent reference to the scales and the actual differences in concentrations is therefore necessary.

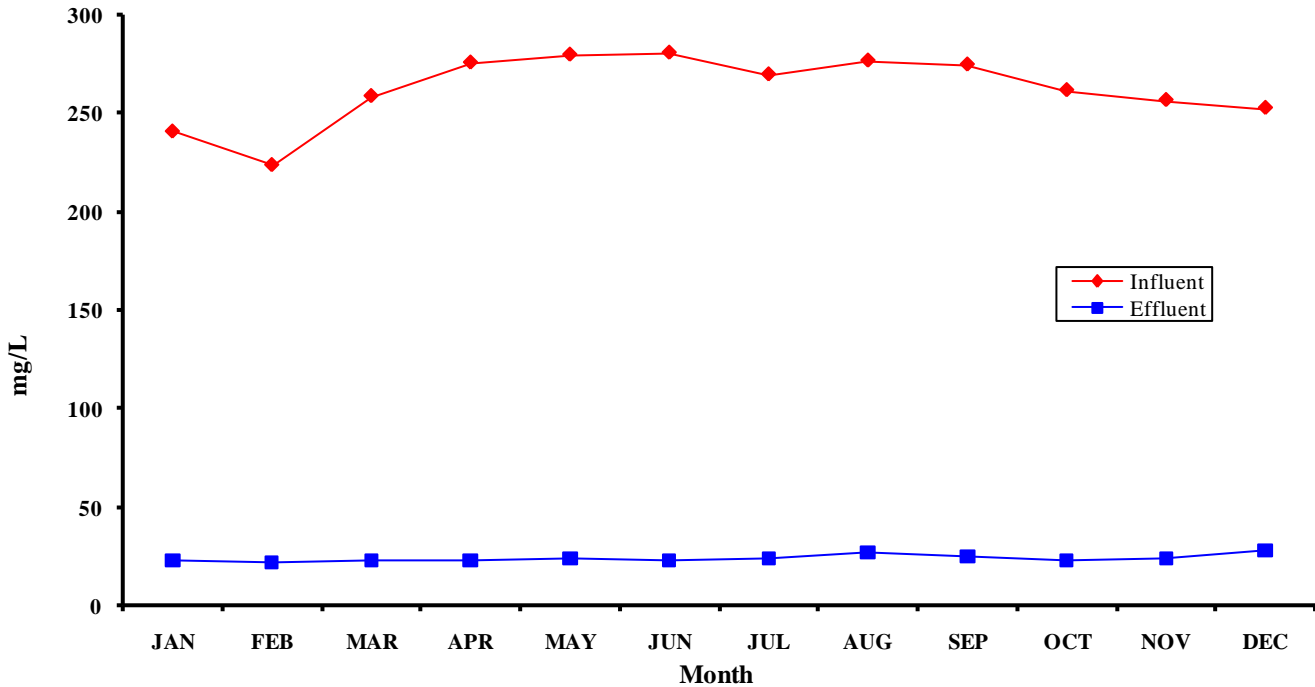




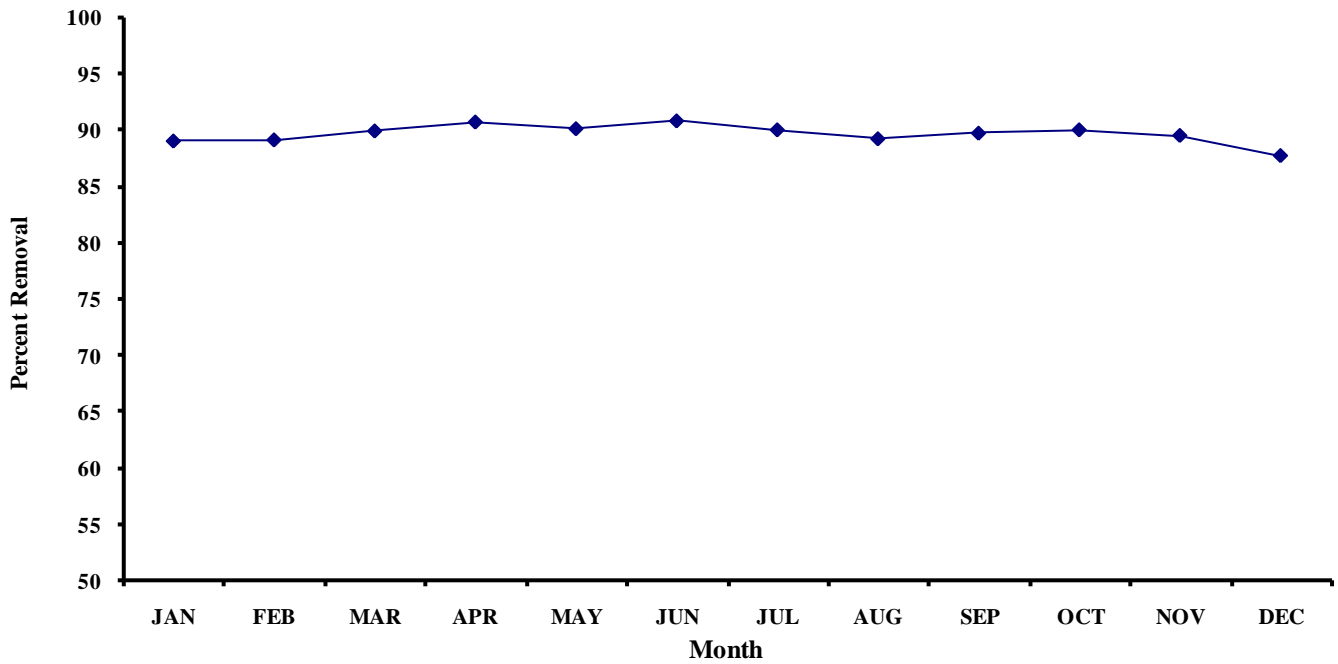
**Total Suspended Solids (mg/L)  
2009 Monthly Averages**



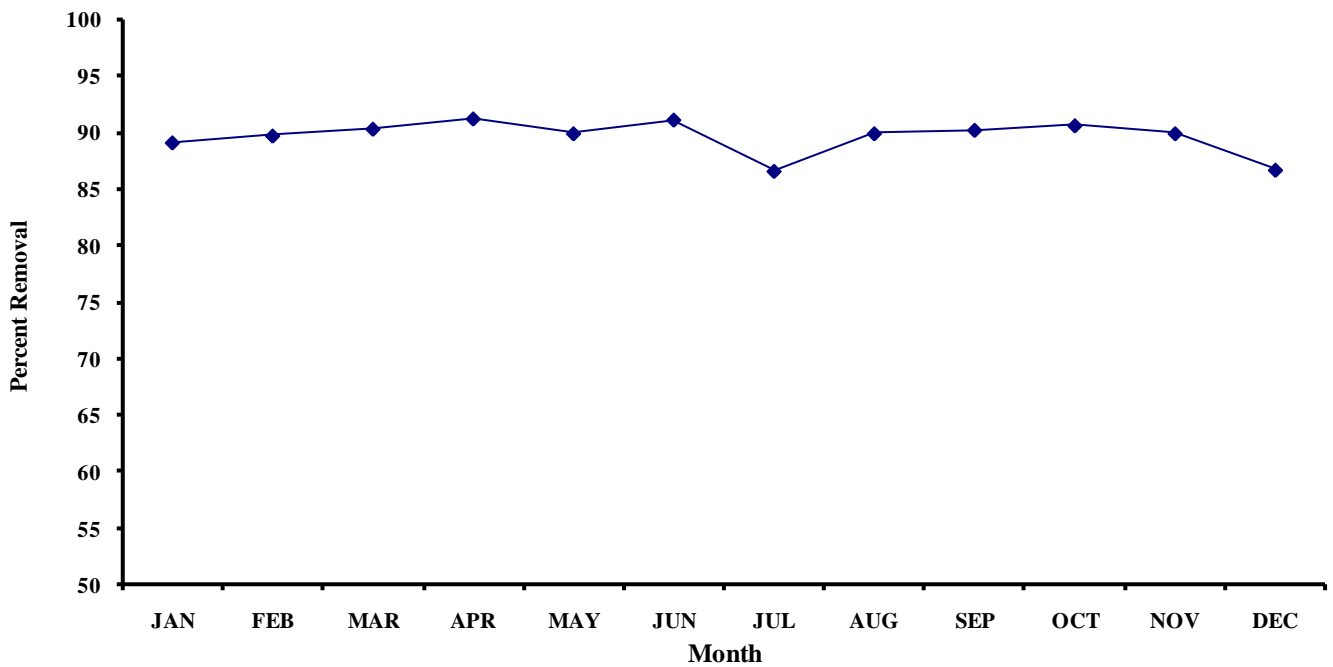
**Volatile Suspended Solids (mg/L)  
2009 Monthly Averages**



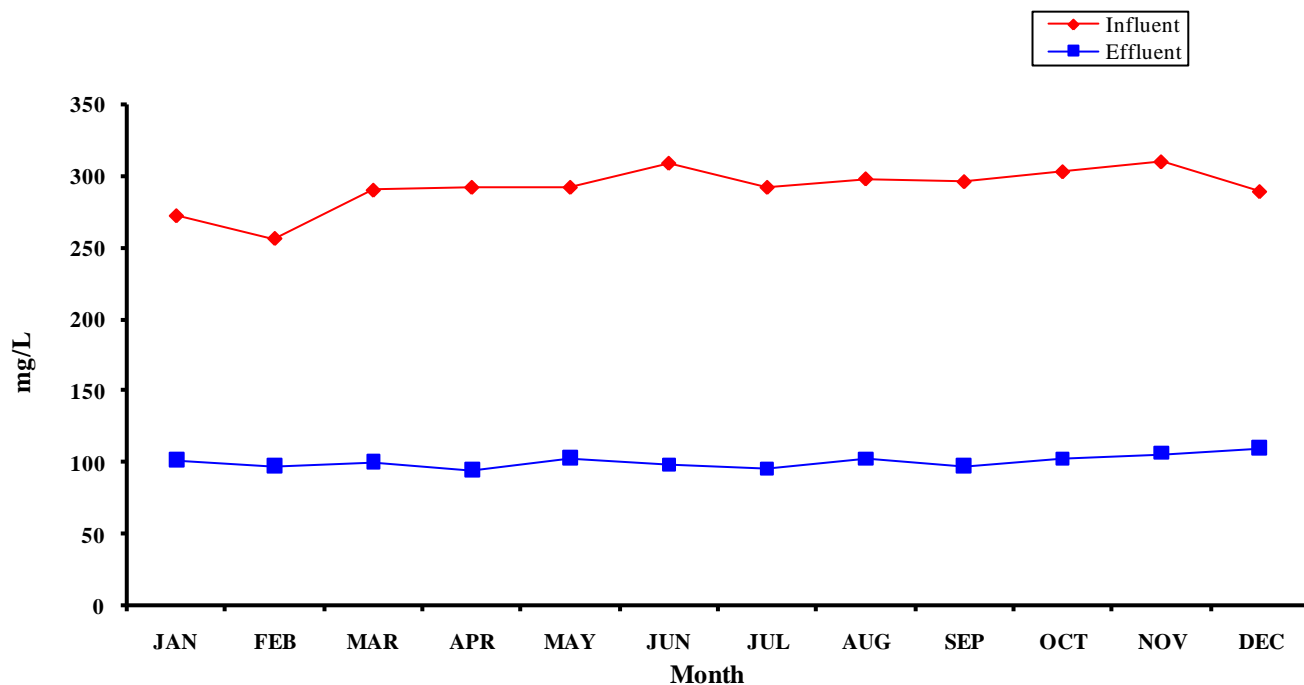
**Total Suspended Solids (%) Removal  
2009 Monthly Averages at Point Loma**



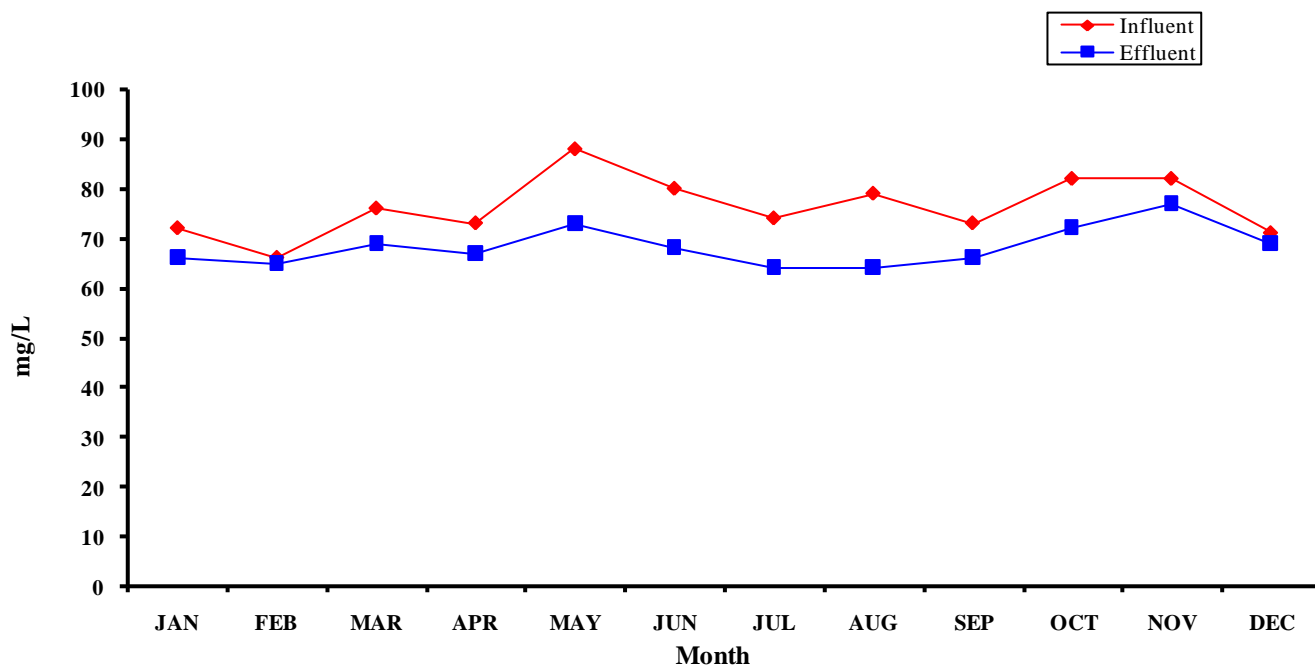
**Total Suspended Solids (%) Removal  
2009 Monthly Averages Systemwide**



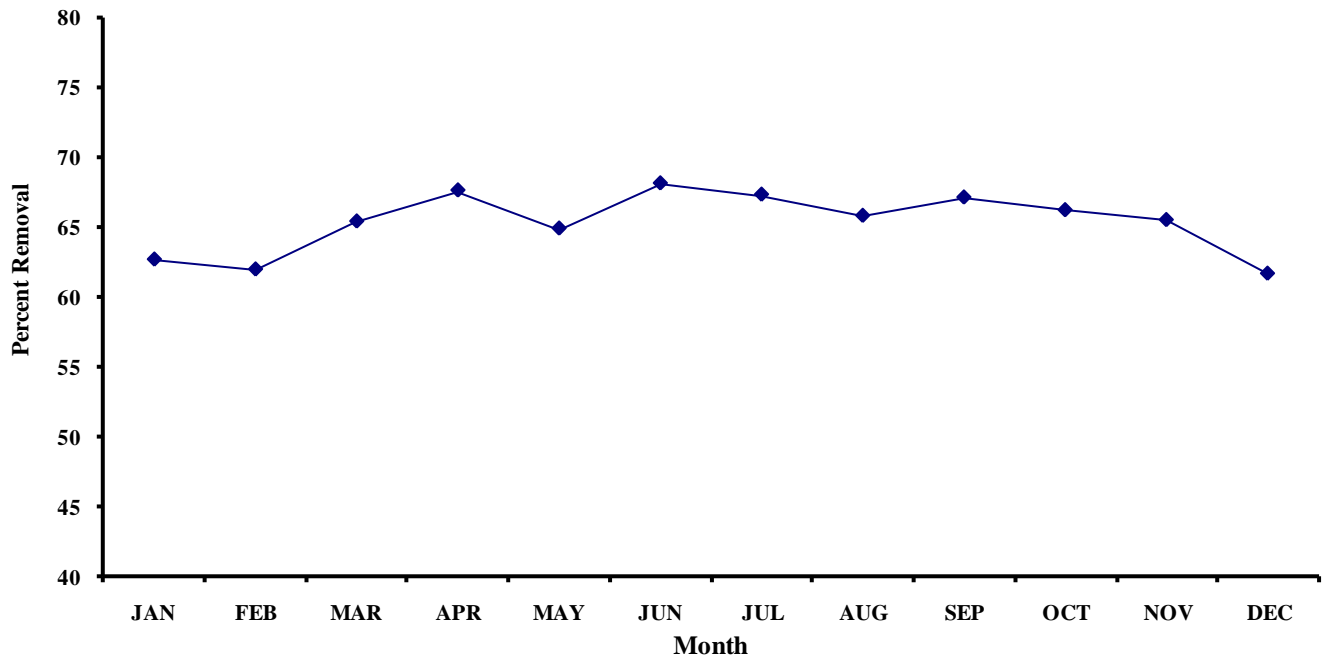
### Biochemical Oxygen Demand 2009 Monthly Averages



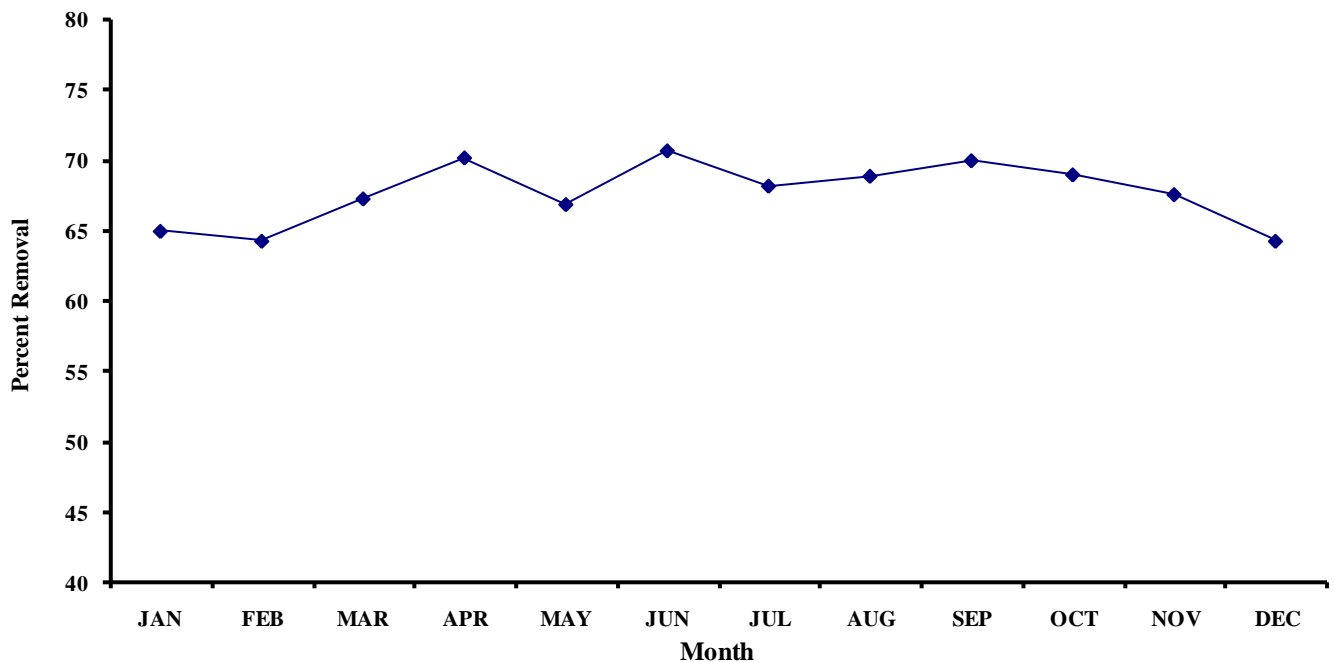
### Soluble Biochemical Oxygen Demand 2009 Monthly Averages



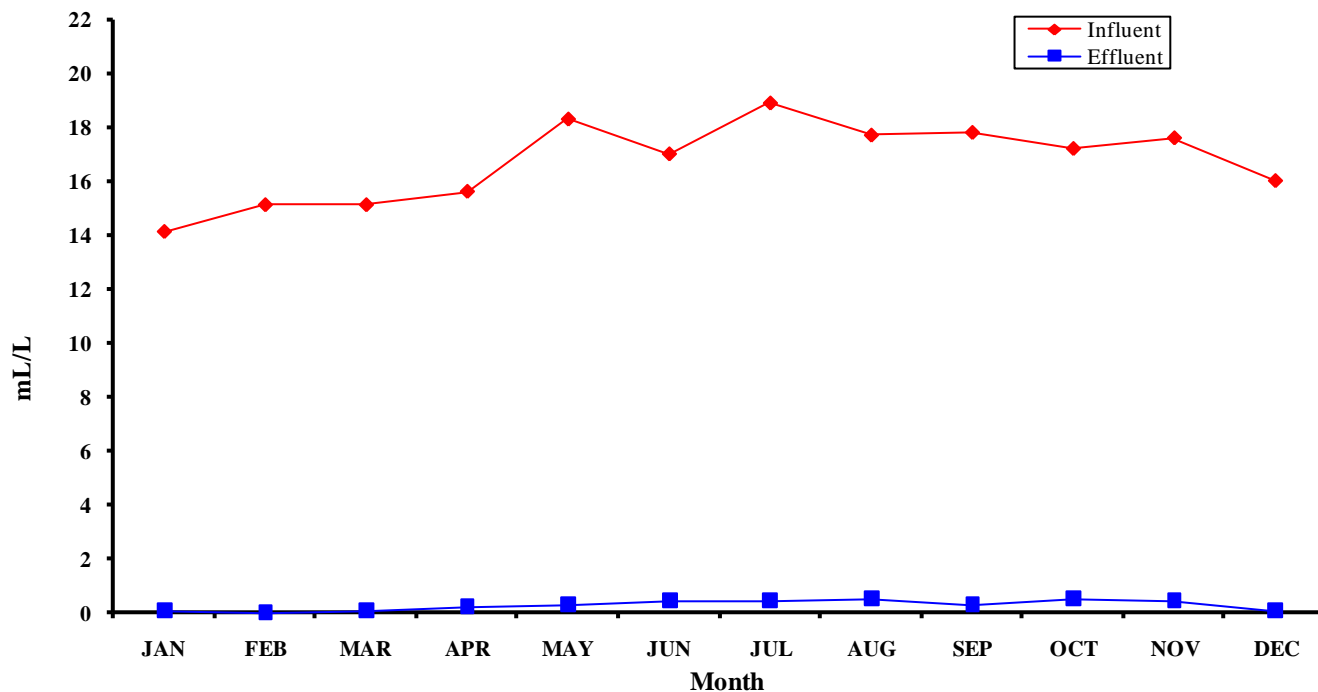
**Biochemical Oxygen Demand (%) Removal  
2009 Monthly Averages at Point Loma**



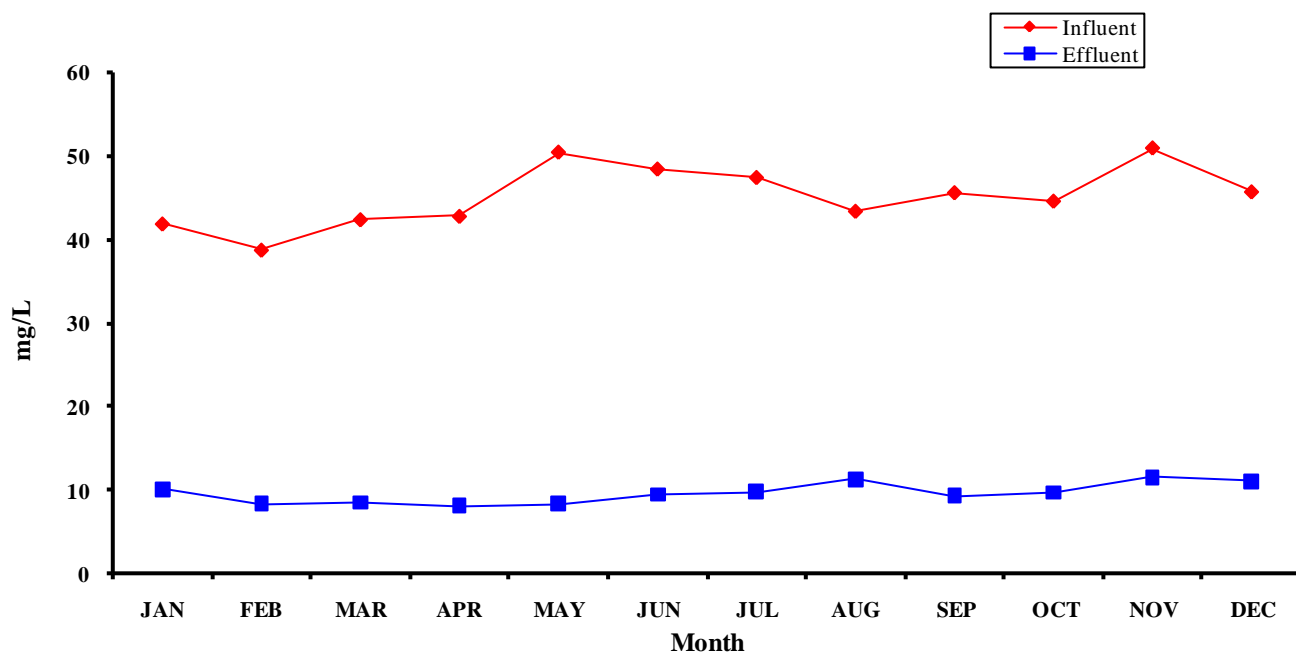
**Biochemical Oxygen Demand (%) Removal  
2009 Monthly Averages Systemwide**



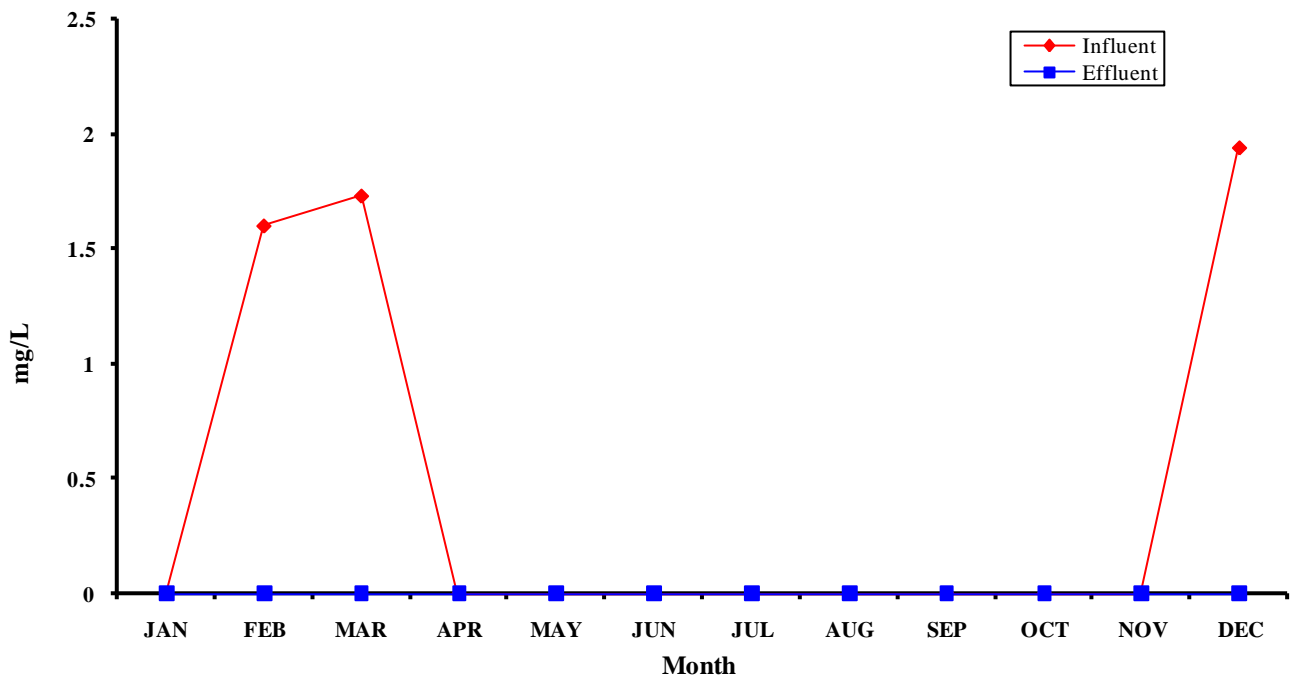
**Settleable Solids (mL/L)  
2009 Monthly Averages**



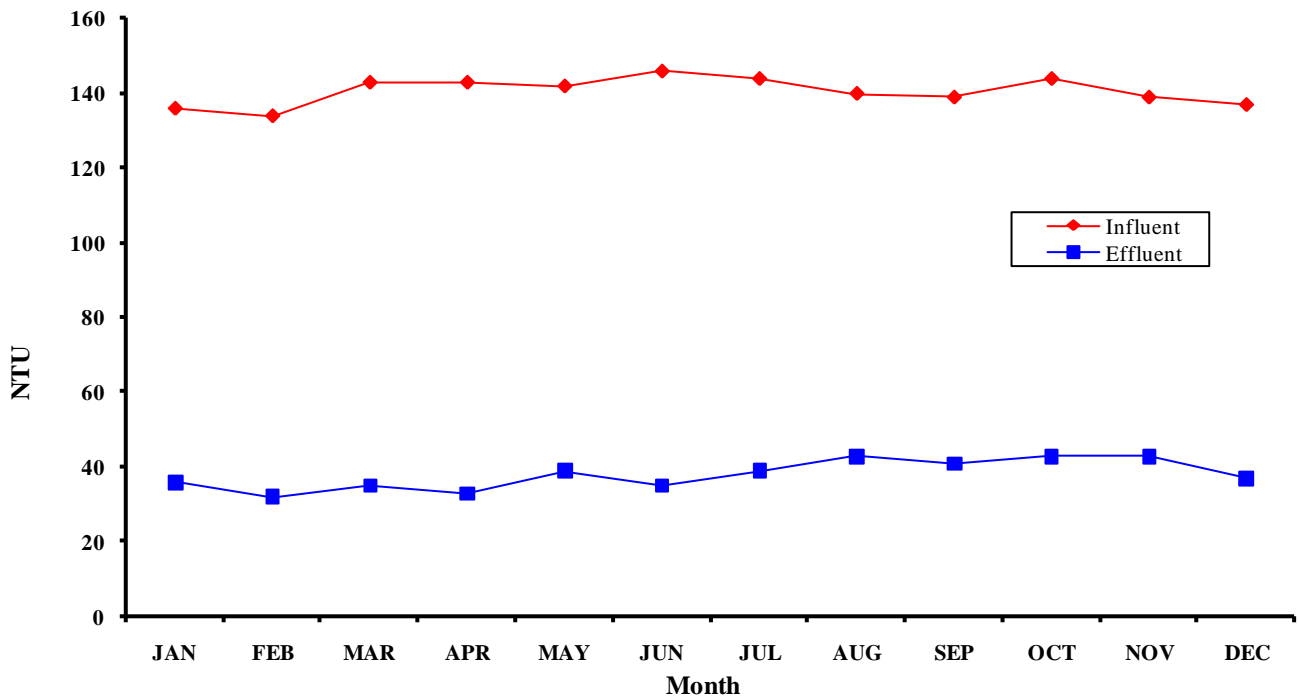
**Hexane Extractable Material (mg/L)  
2009 Monthly Averages**



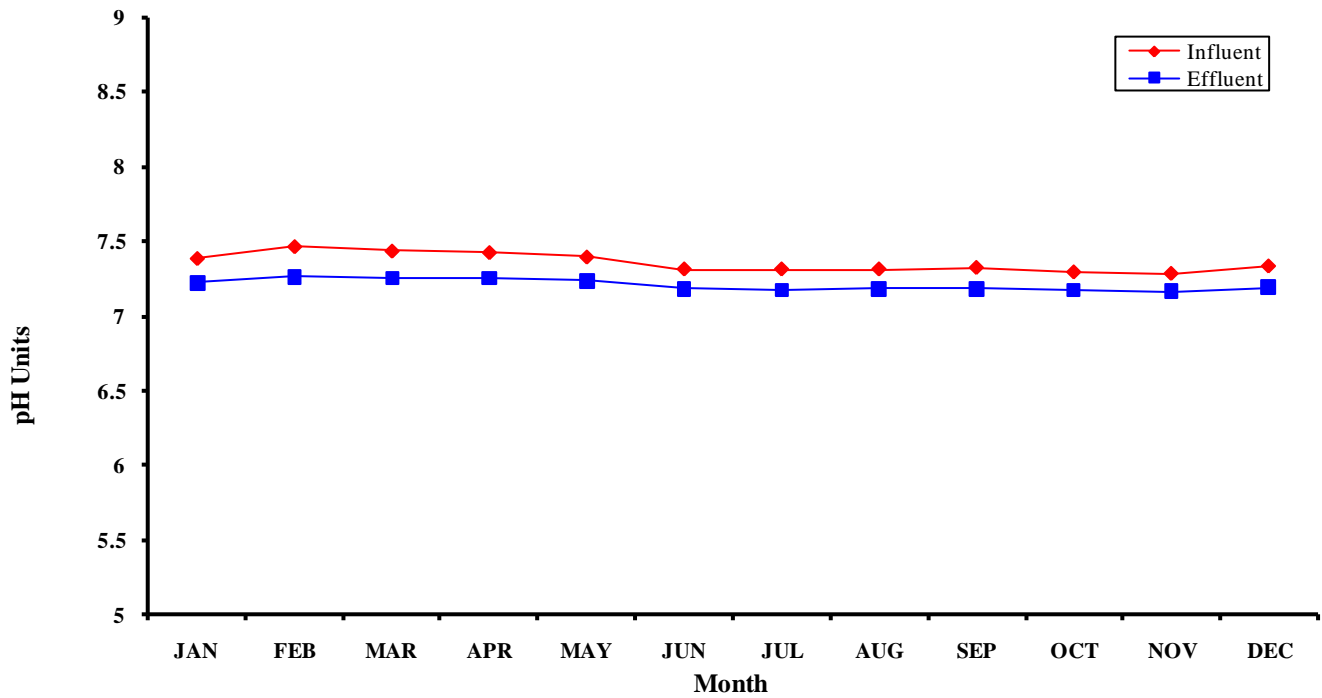
**Floatables (mg/L)**  
**2009 Monthly Averages**



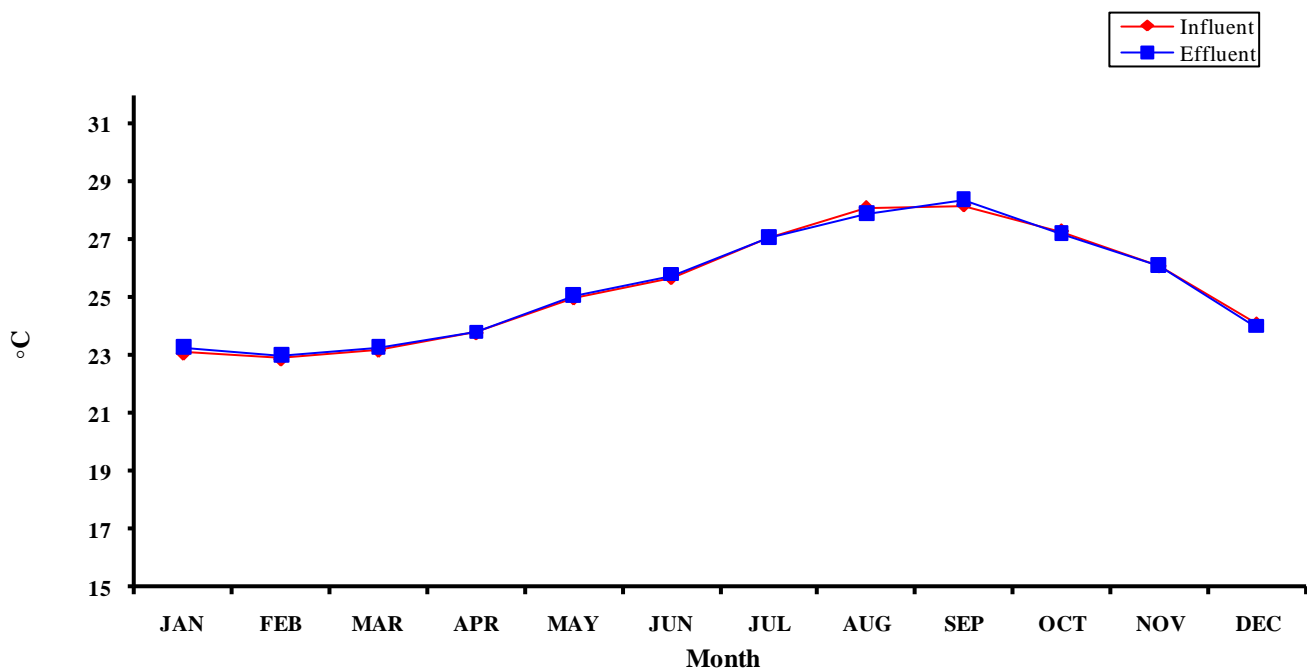
**Turbidity (NTU)**  
**2009 Monthly Averages**



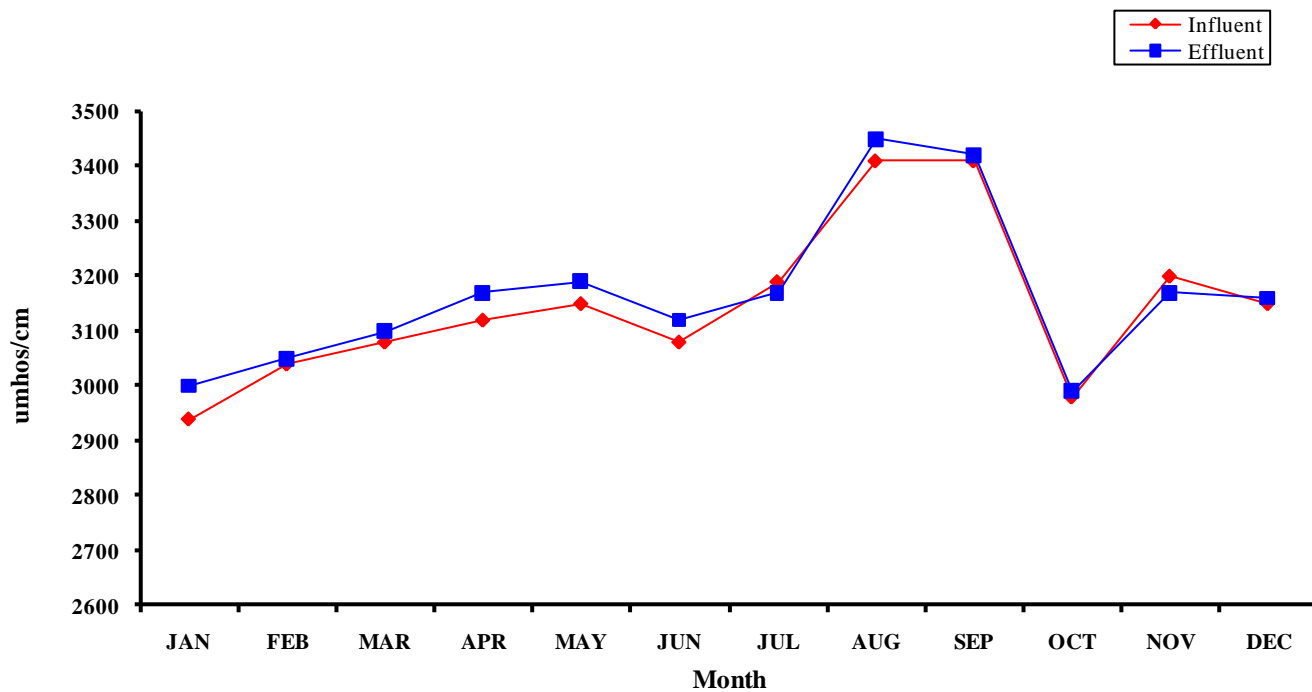
### pH 2009 Monthly Averages



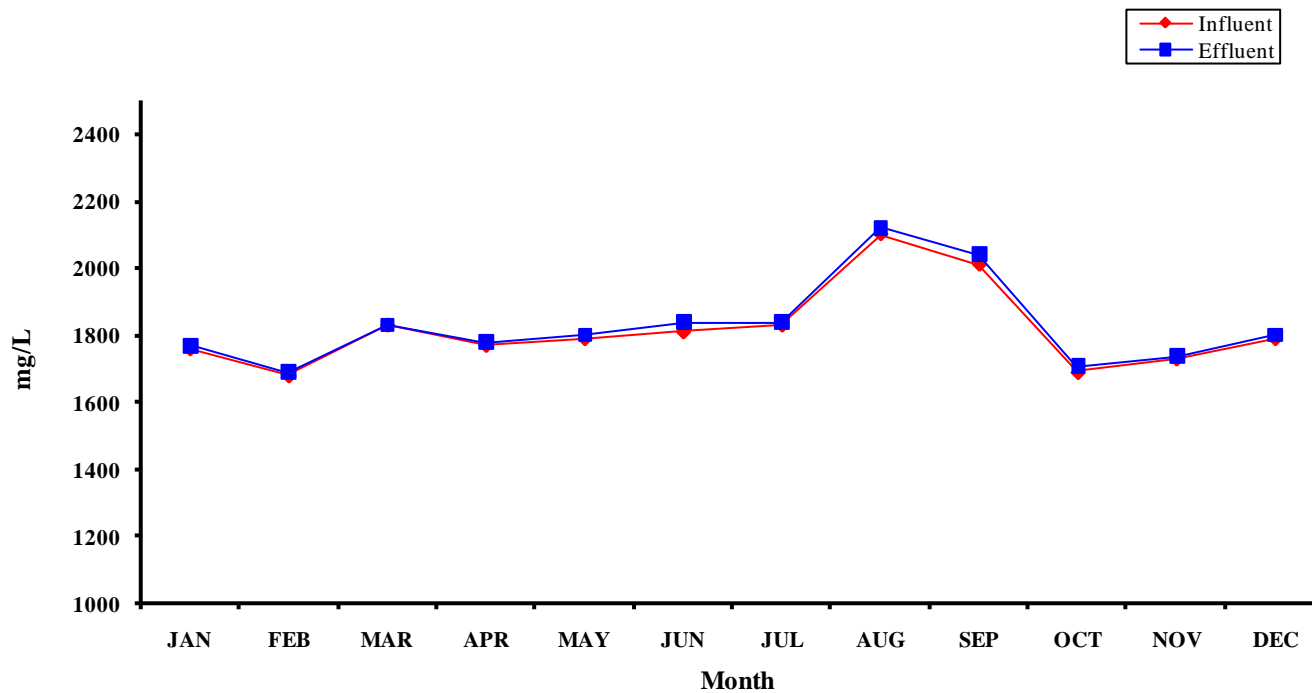
### Temperature (°C) 2009 Monthly Averages



### Conductivity (umhos/cm) 2009 Monthly Averages

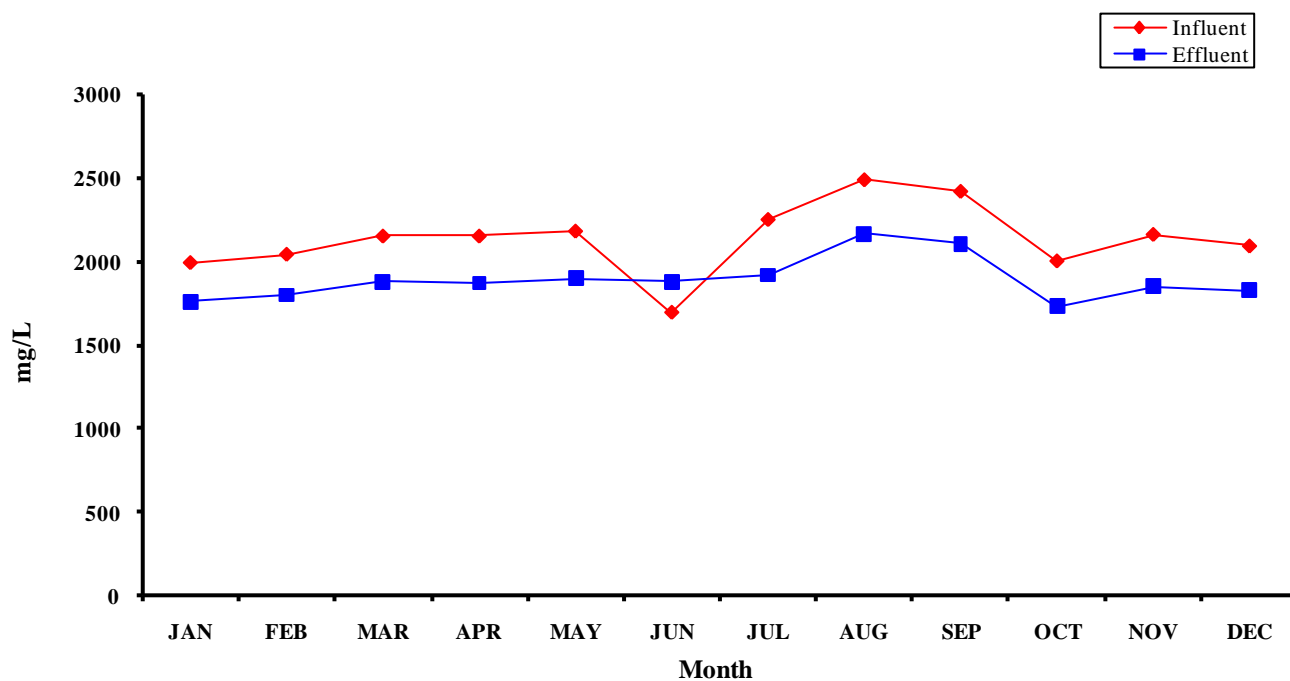


### Total Dissolved Solids (mg/L) 2009 Monthly Averages

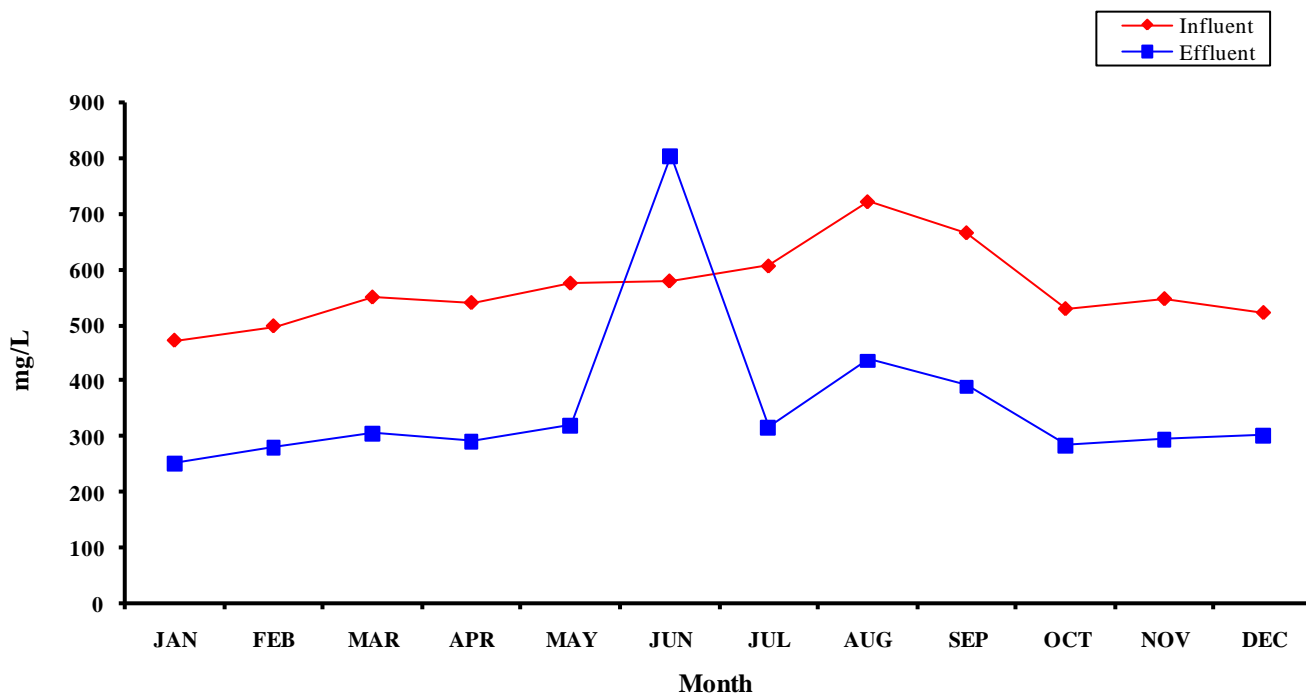




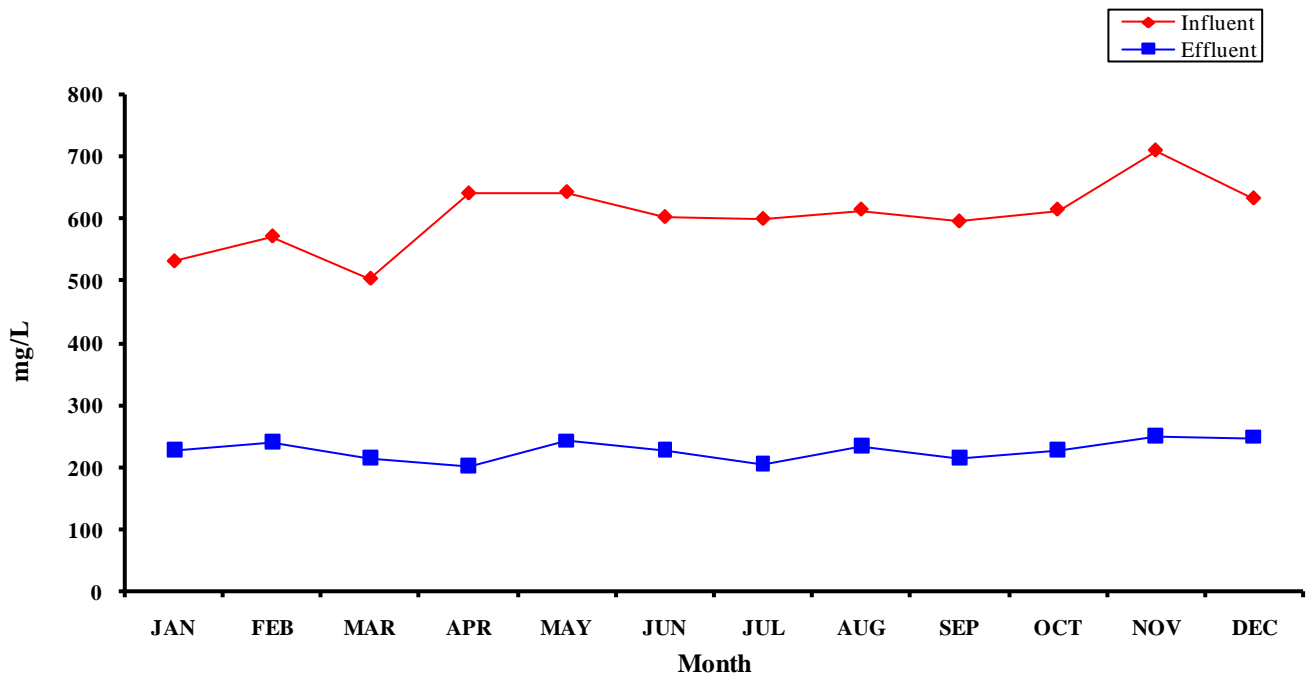
**Total Solids (mg/L)  
2009 Monthly Averages**



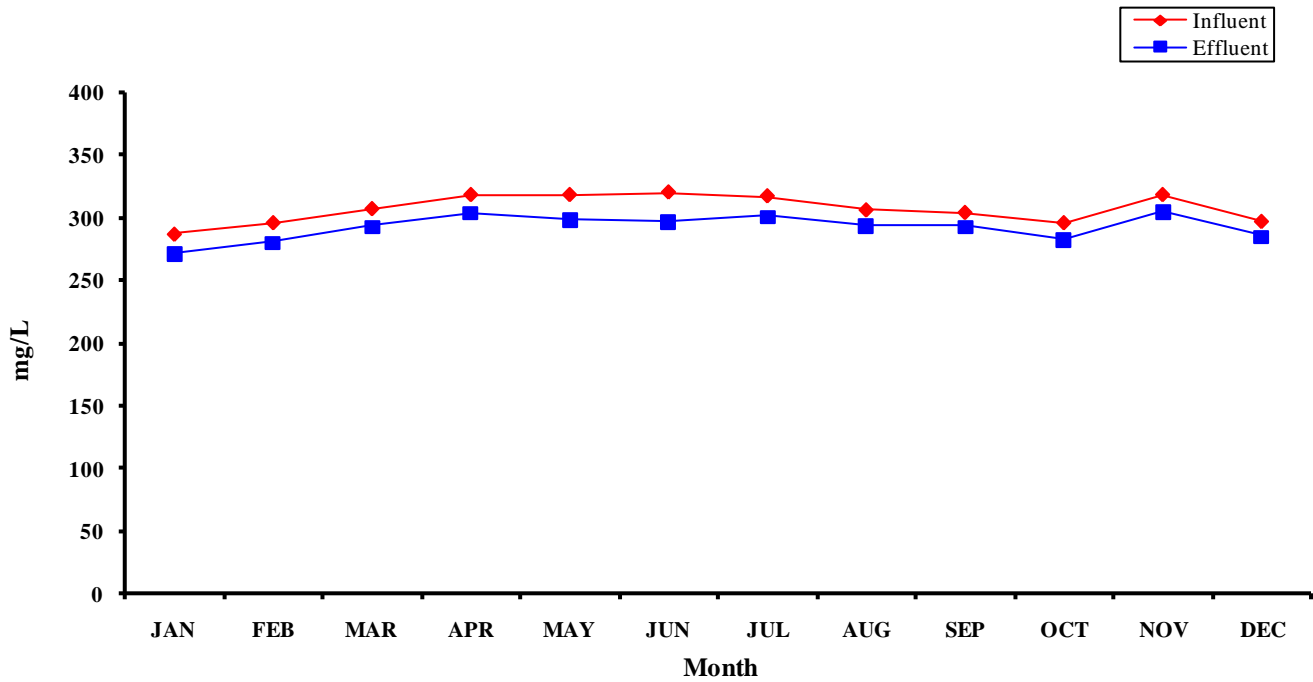
**Total Volatile Solids (mg/L)  
2009 Monthly Averages**



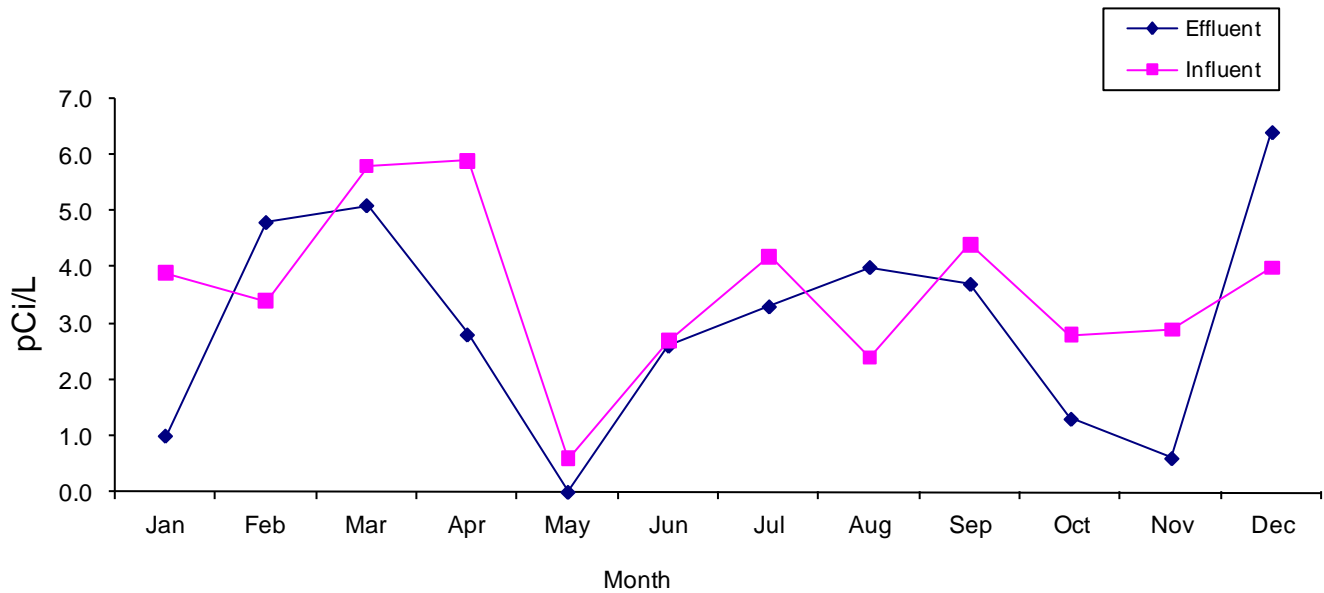
### Chemical Oxygen Demand (mg/L) 2009 Monthly Averages



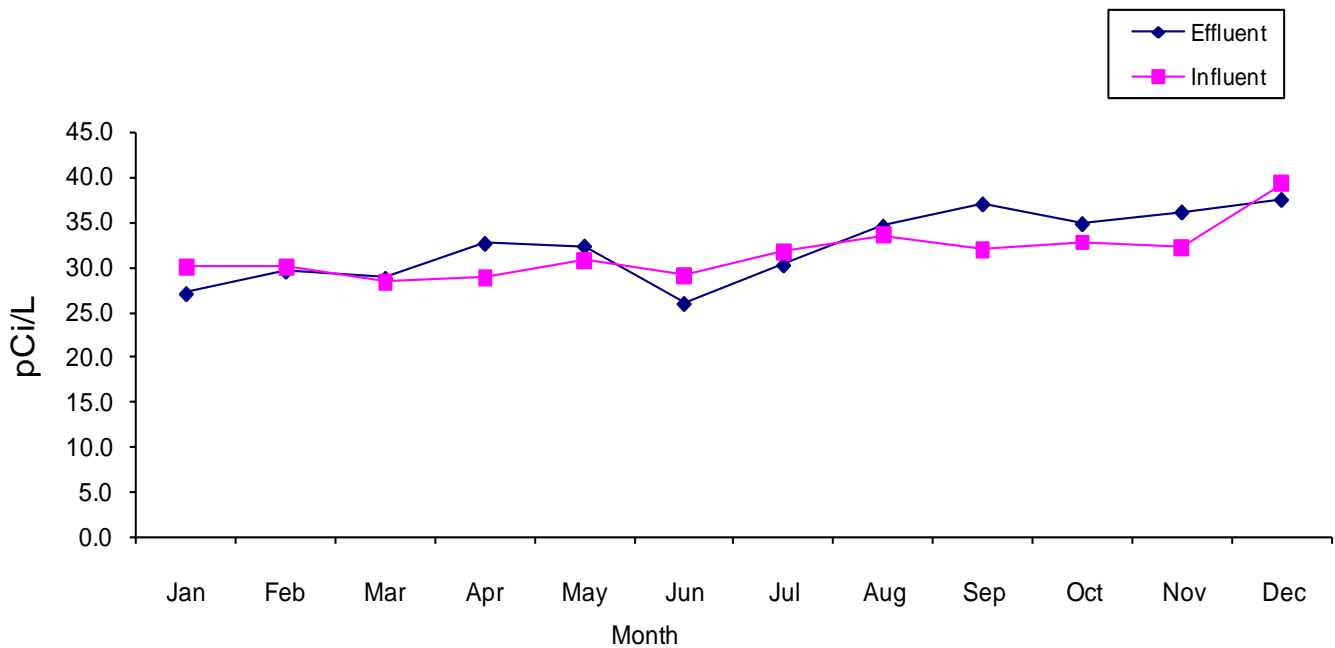
### Alkalinity (mg/L) 2009 Monthly Averages



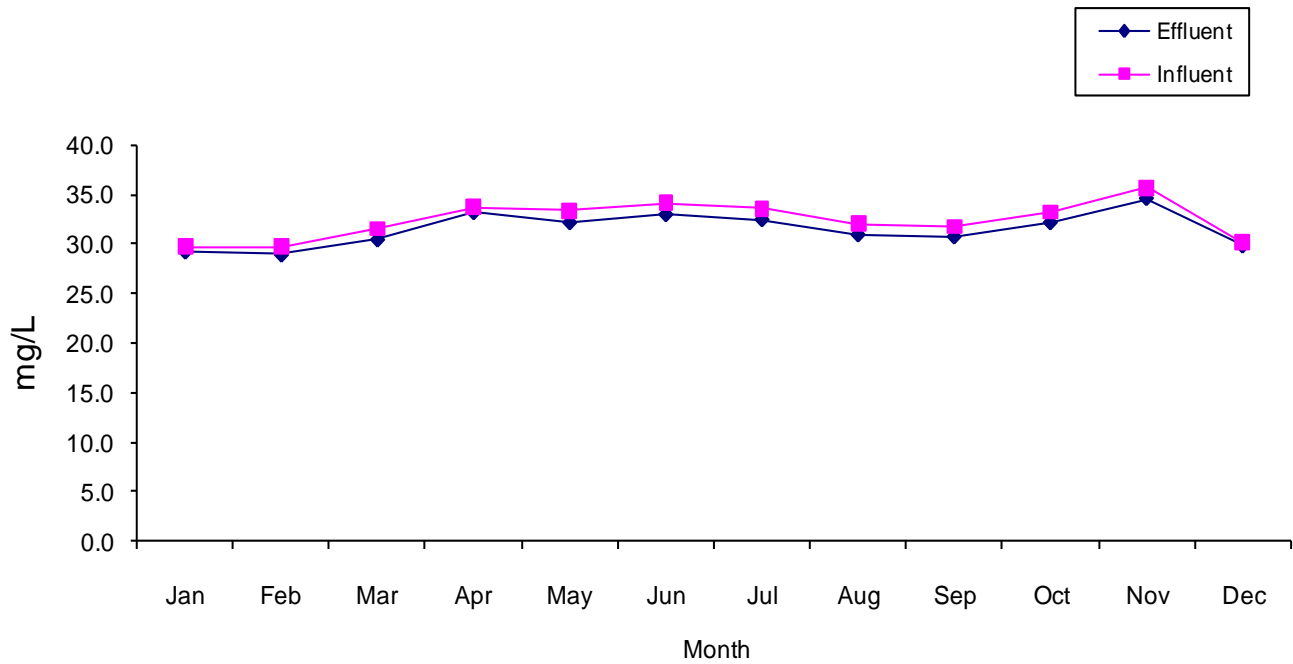
### Point Loma Wastewater Treatment Plant 2009 Monthly Averages - Alpha Radiation



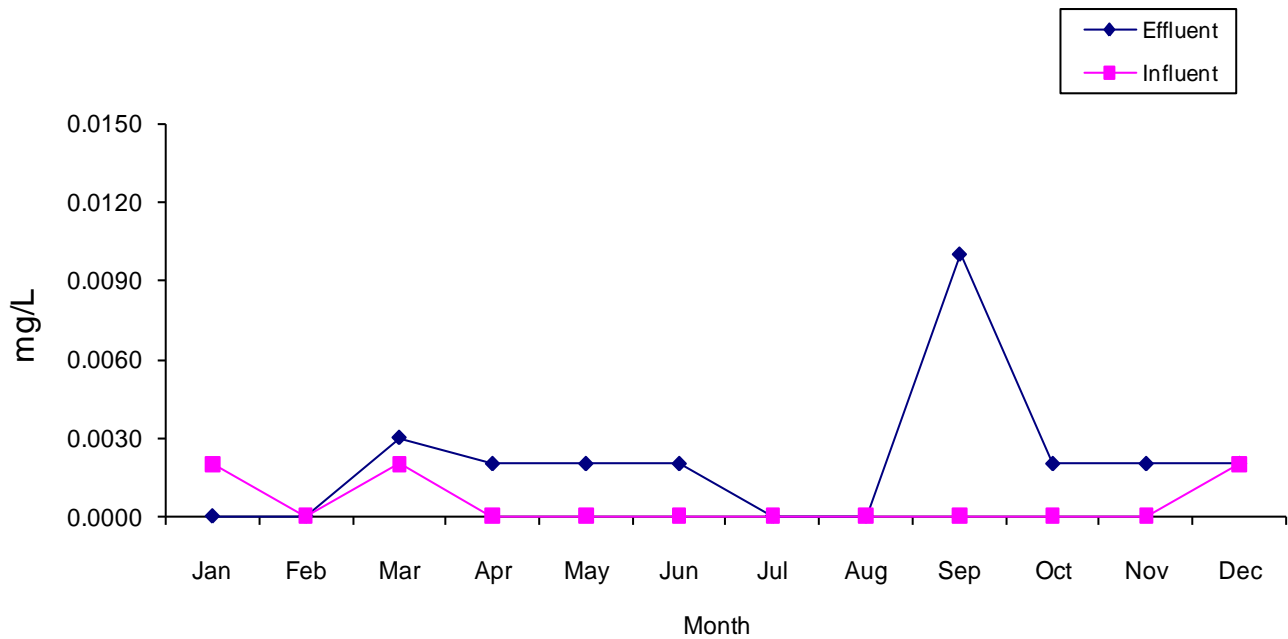
### Point Loma Wastewater Treatment Plant 2009 Monthly Averages - Beta Radiation



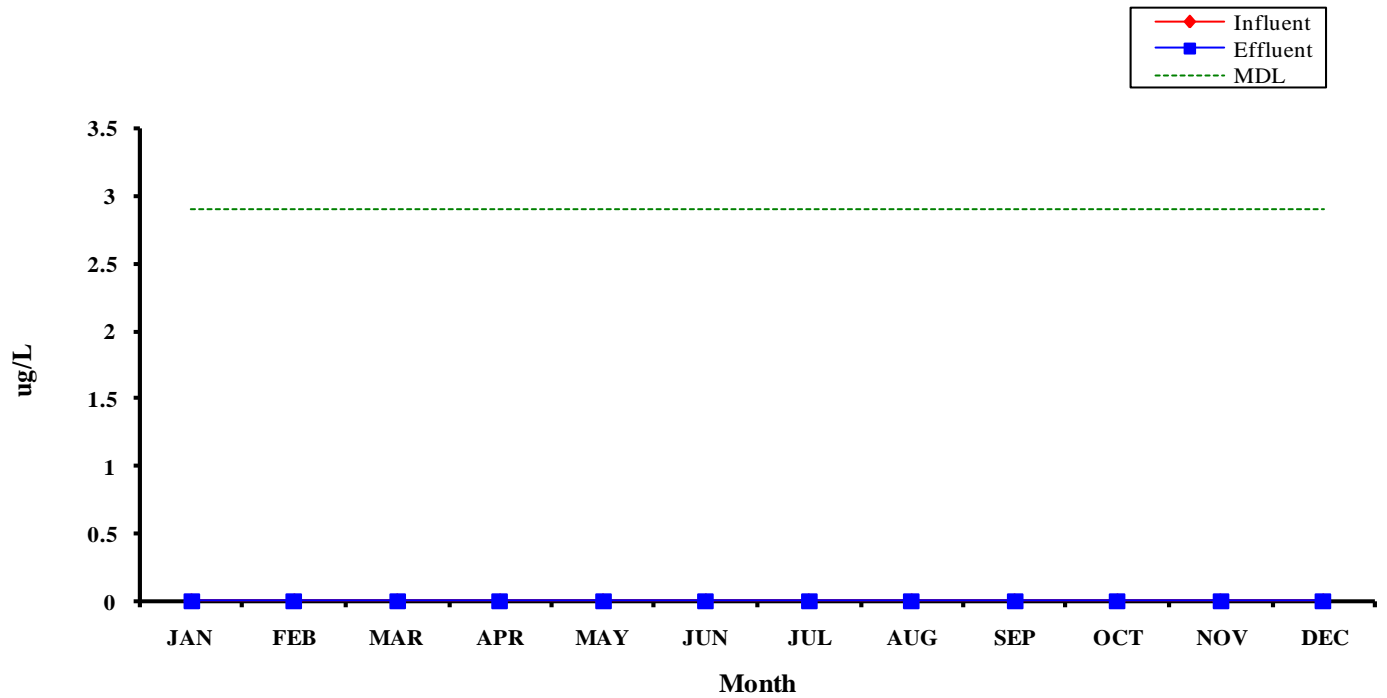
**Point Loma Wastewater Treatment Plant  
2009 Monthly Averages - Ammonia-N**



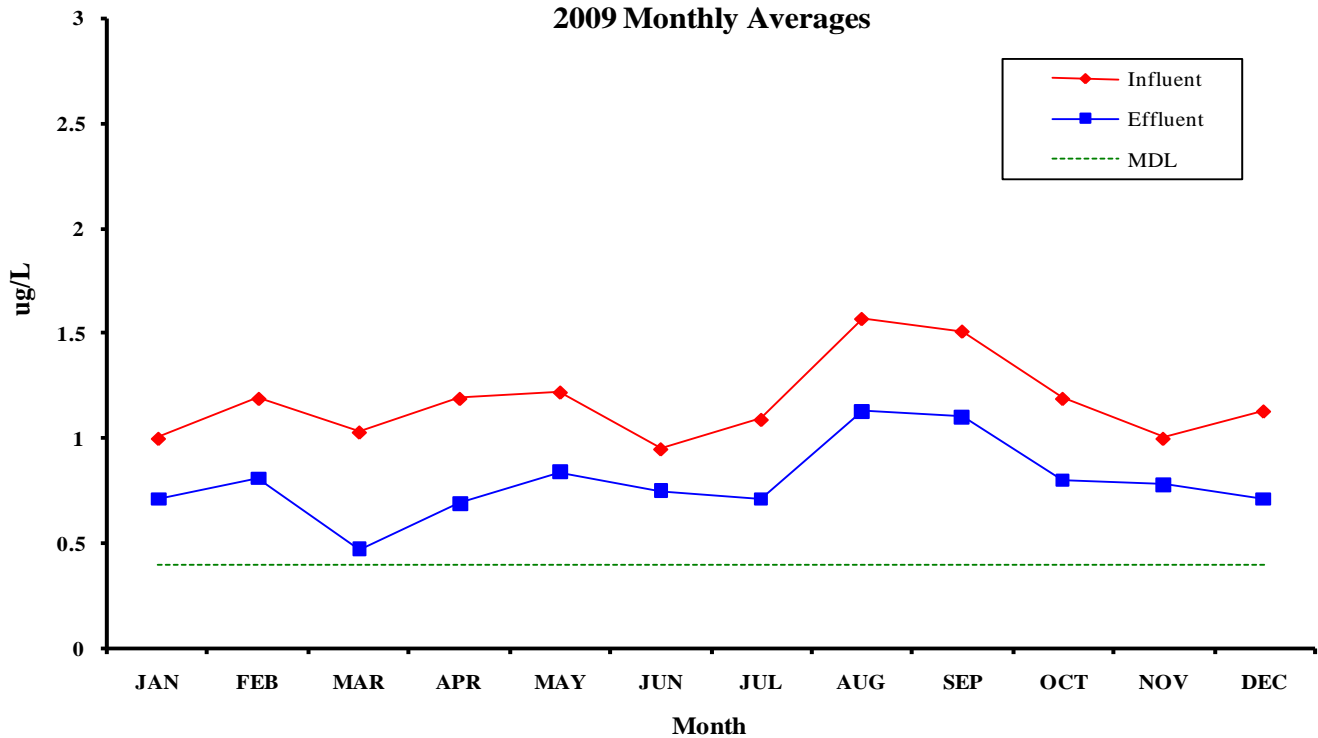
**Point Loma Wastewater Treatment Plant  
2009 Monthly Averages - Total Cyanides**



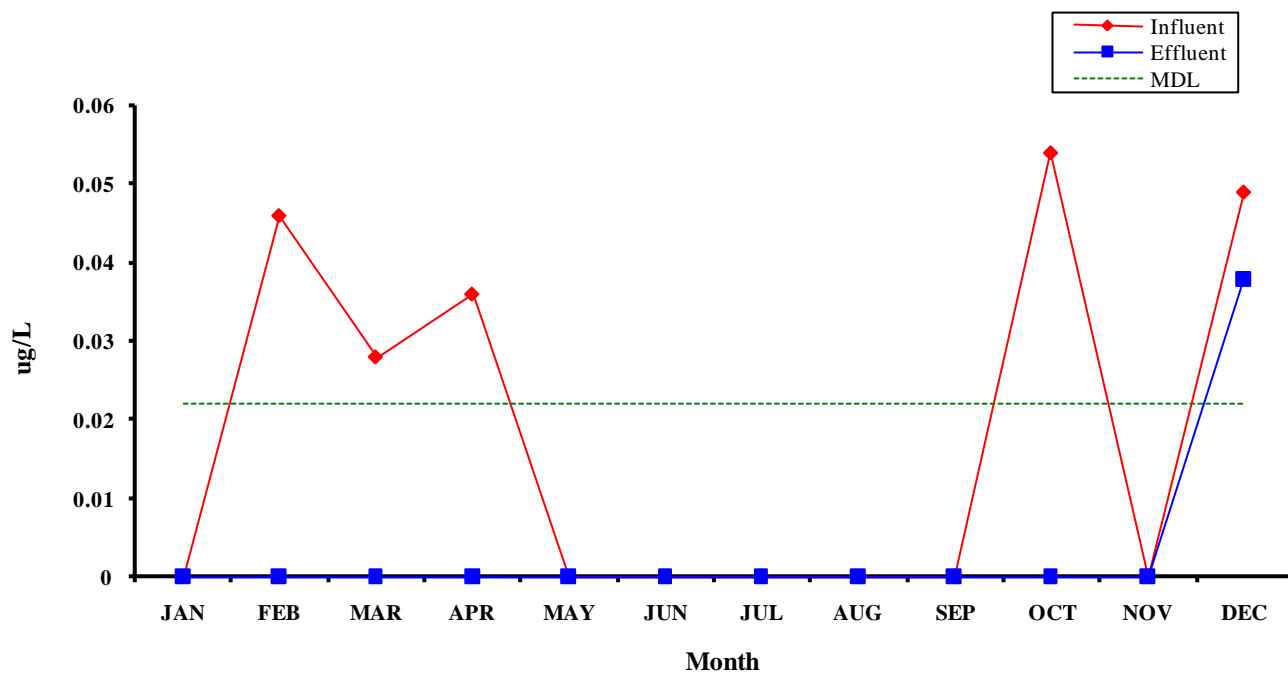
### Antimony 2009 Monthly Averages



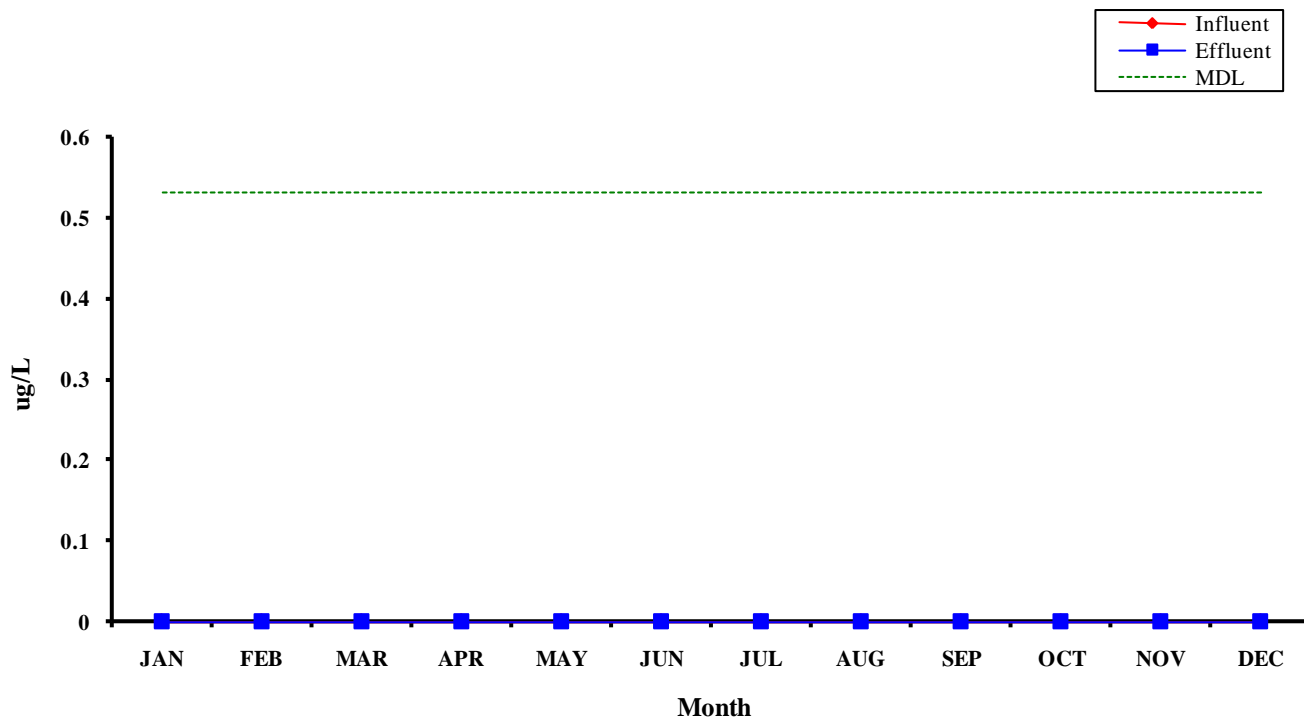
### Arsenic 2009 Monthly Averages



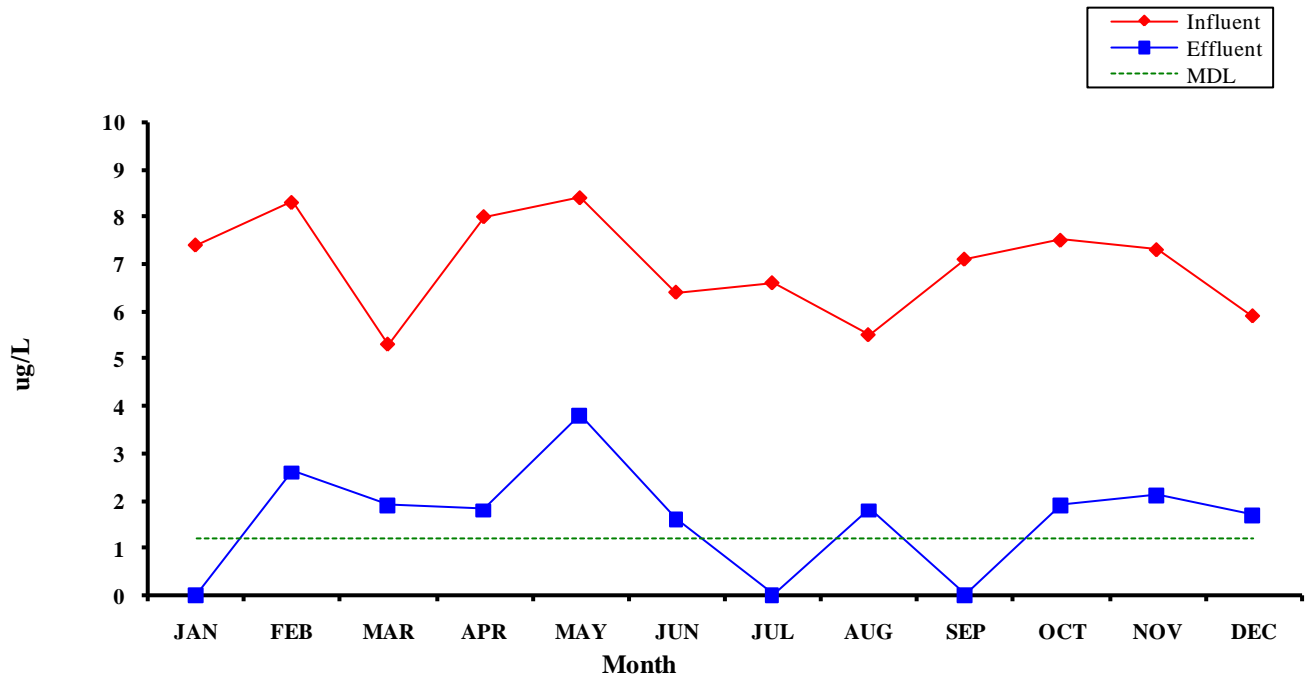
### Beryllium 2009 Monthly Averages



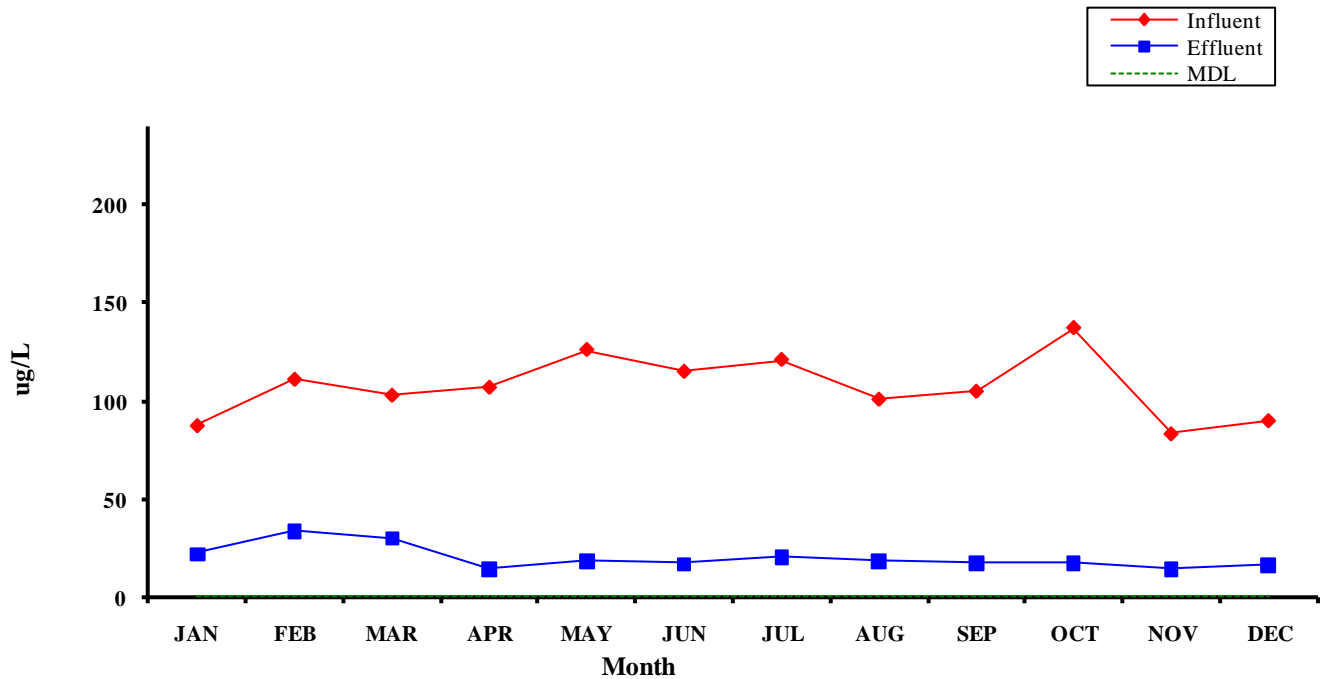
### Cadmium 2009 Monthly Averages



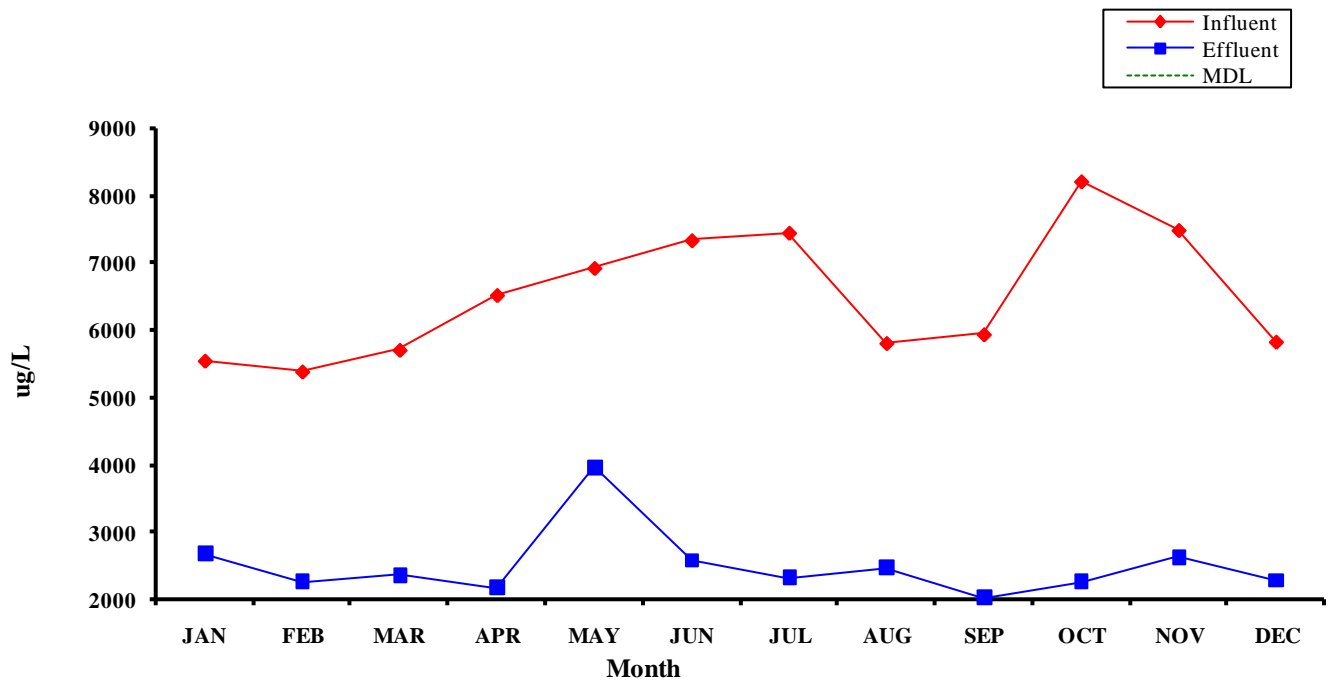
### Chromium 2009 Monthly Averages



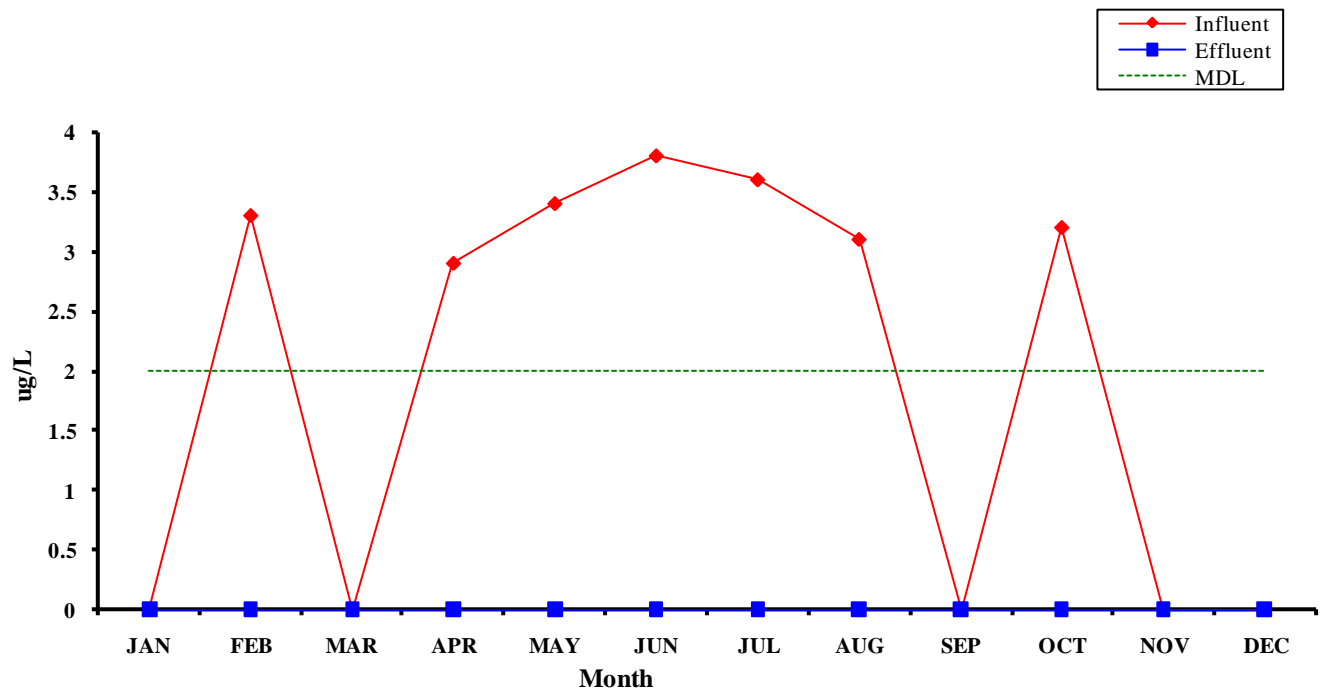
### Copper 2009 Monthly Averages



### Iron 2009 Monthly Averages

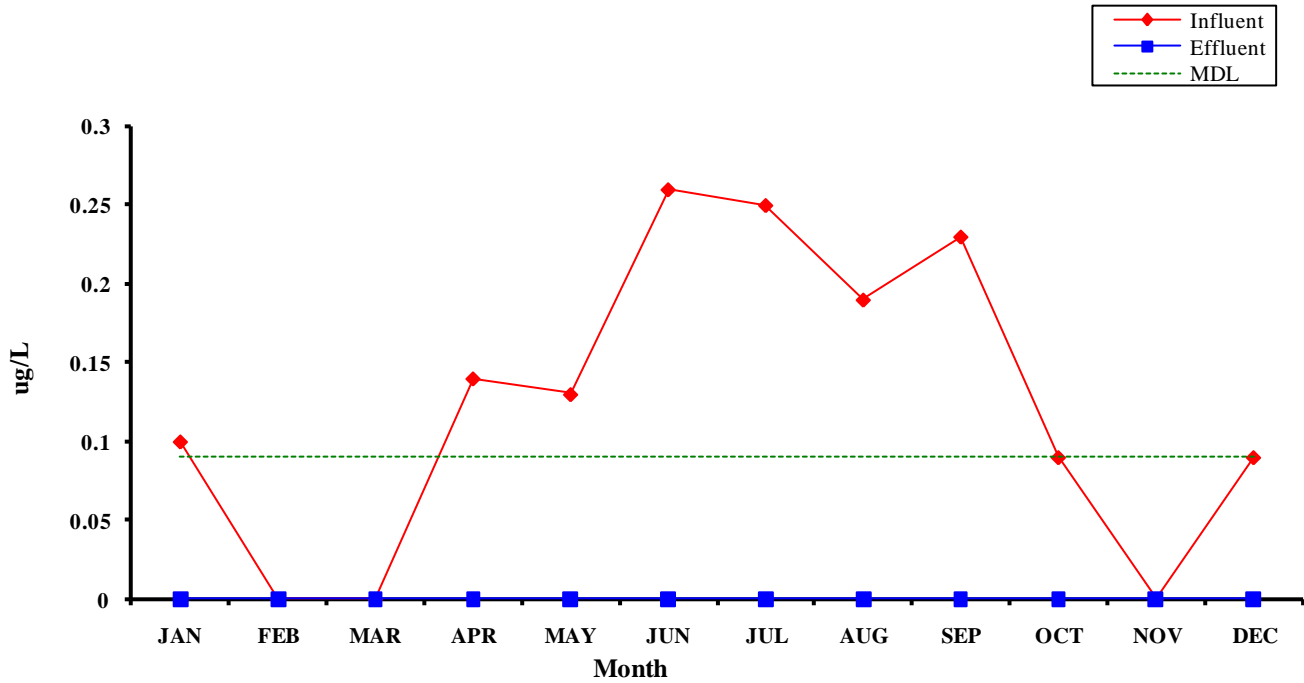


### Lead 2009 Monthly Averages

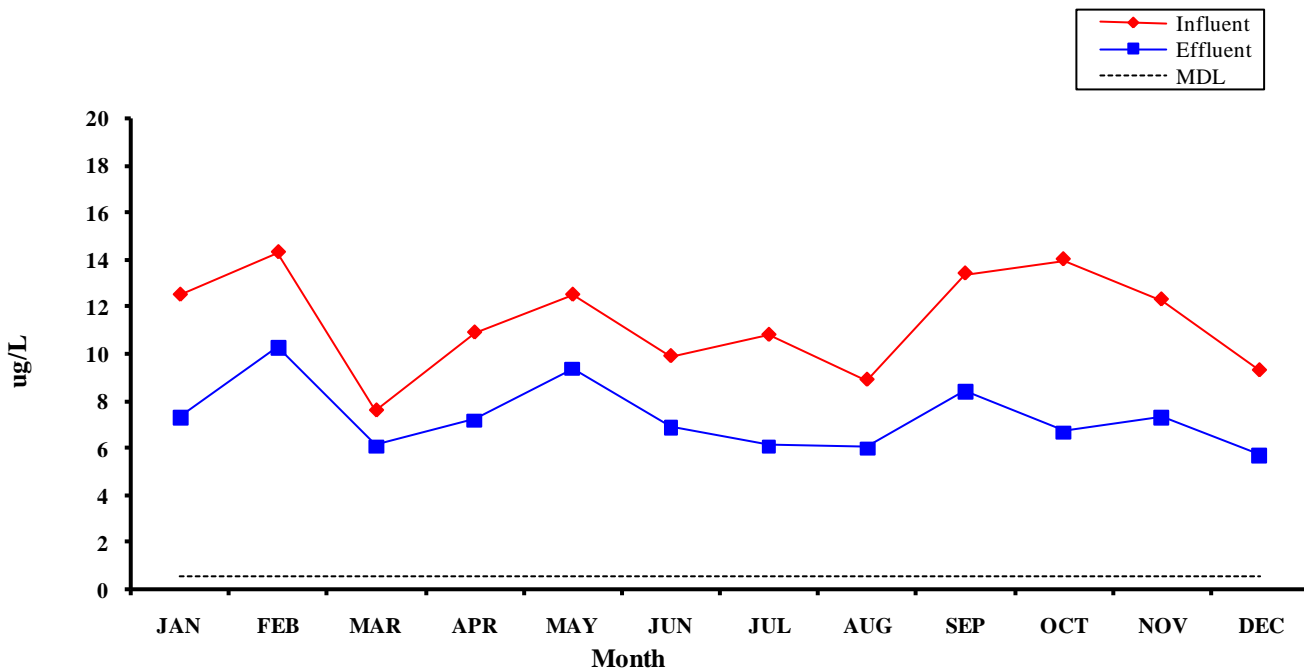




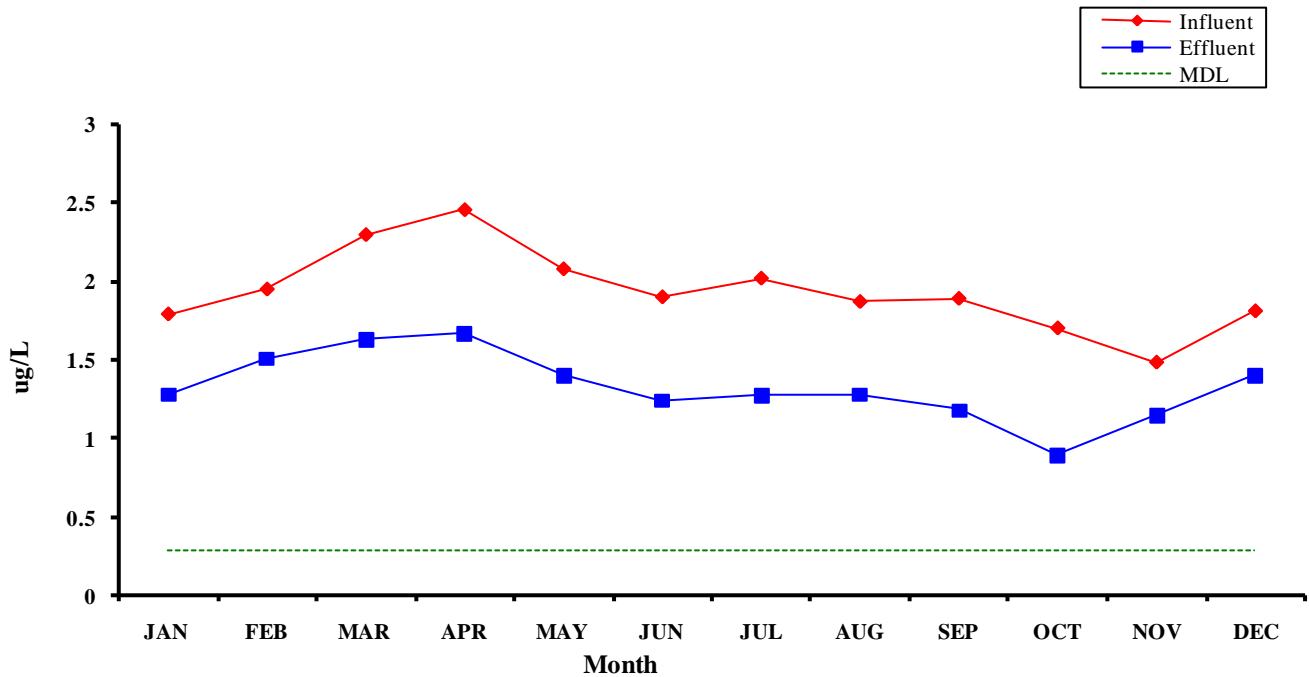
### Mercury 2009 Monthly Averages



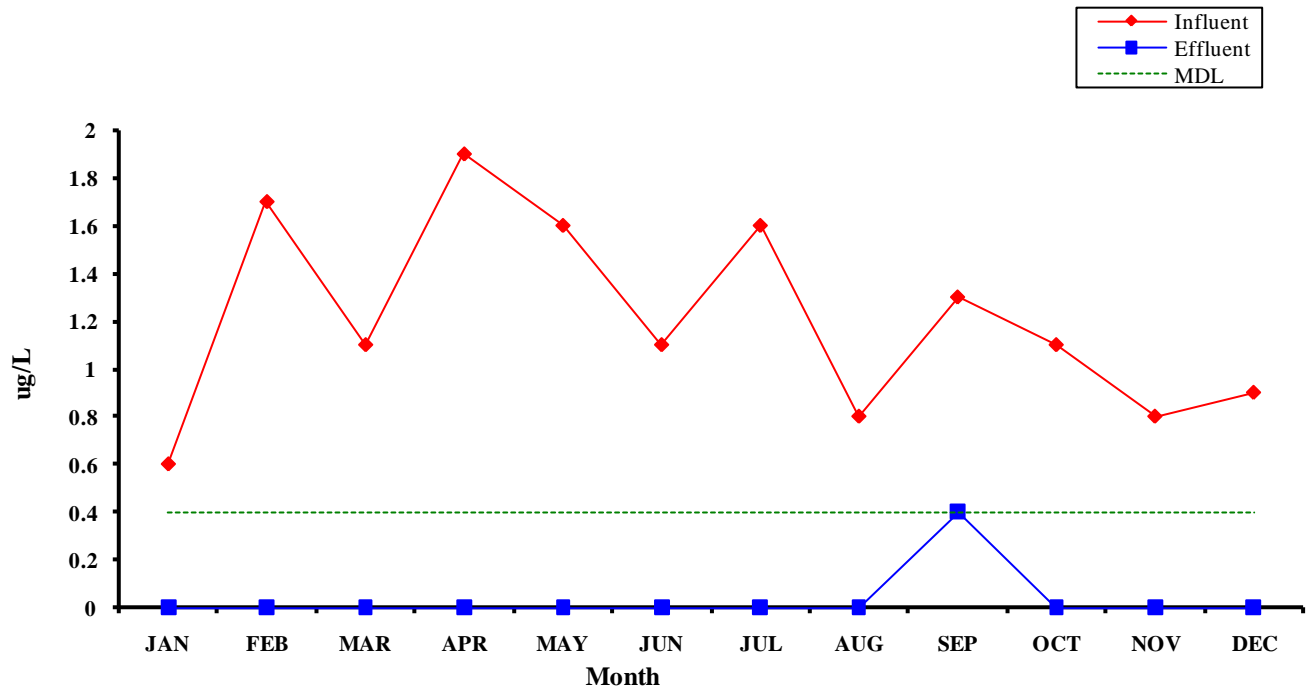
### Nickel 2009 Monthly Averages



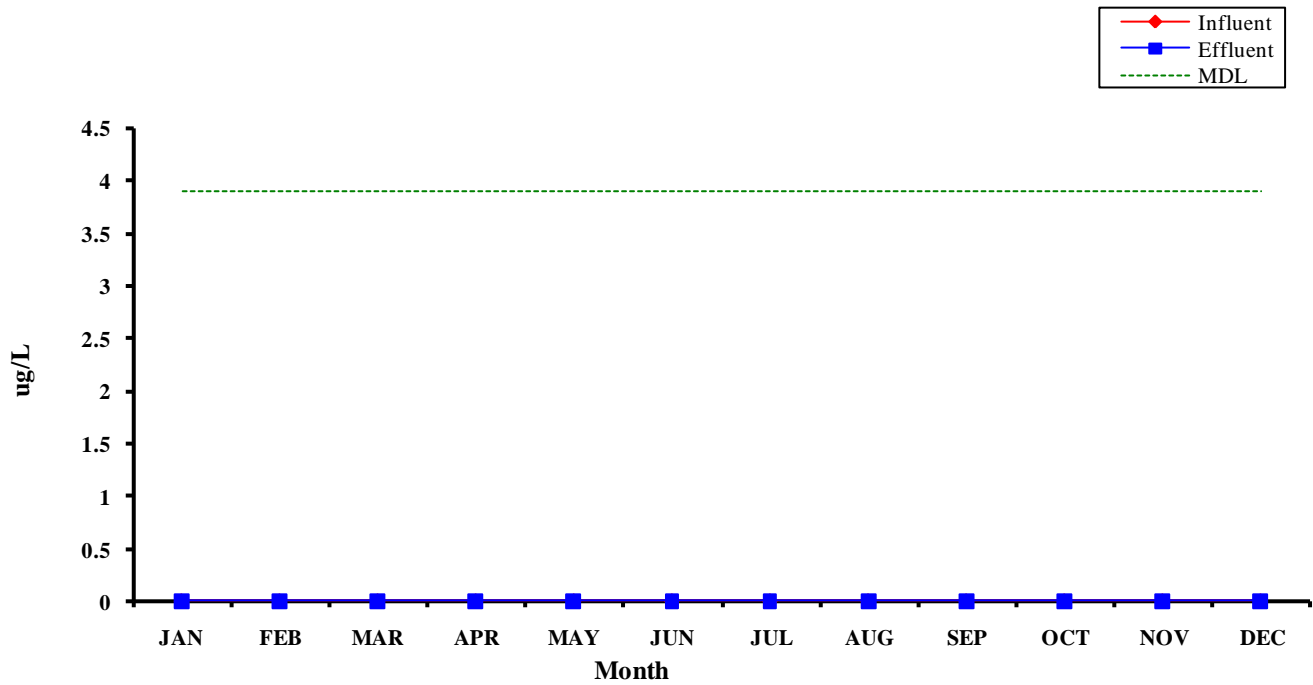
### Selenium 2009 Monthly Averages



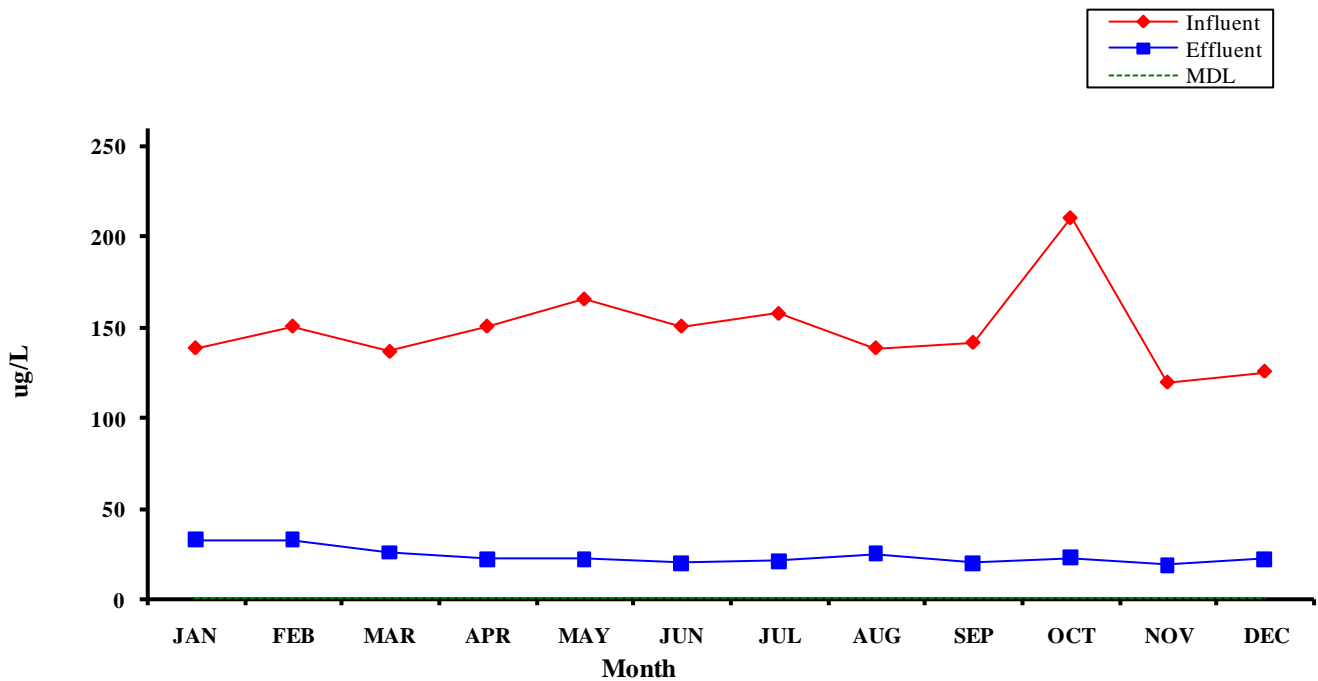
### Silver 2009 Monthly Averages



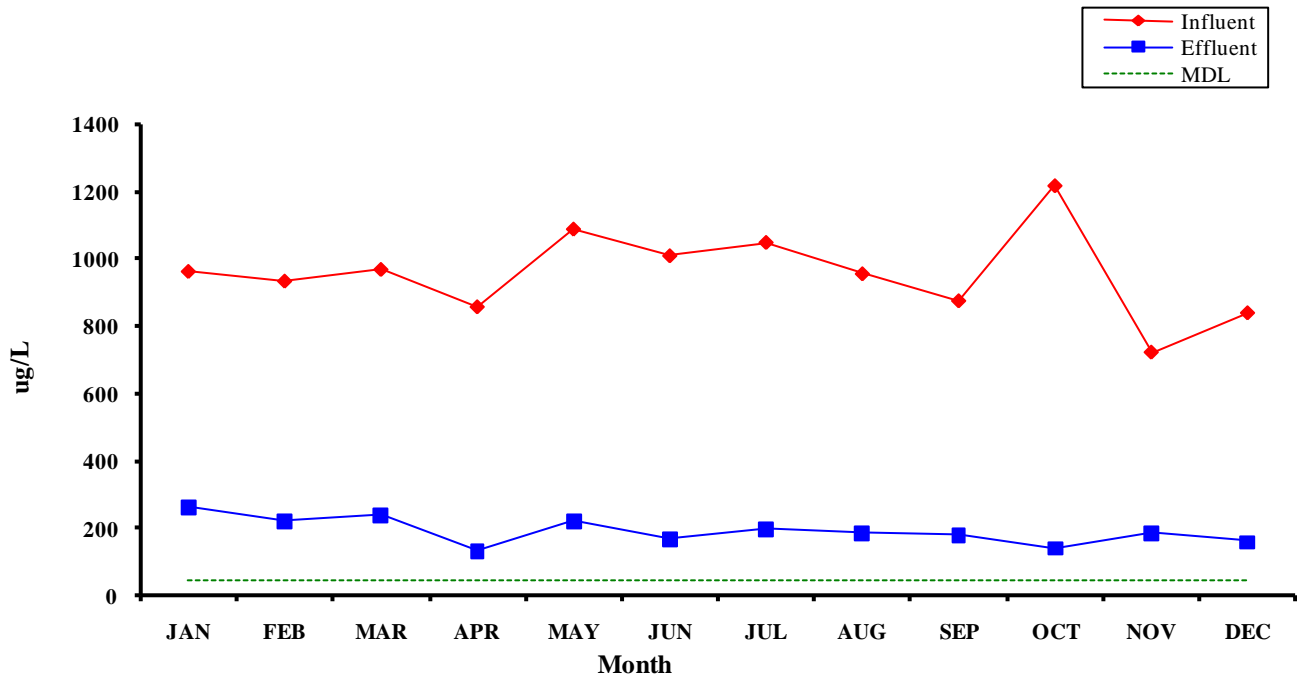
### Thallium 2009 Monthly Averages



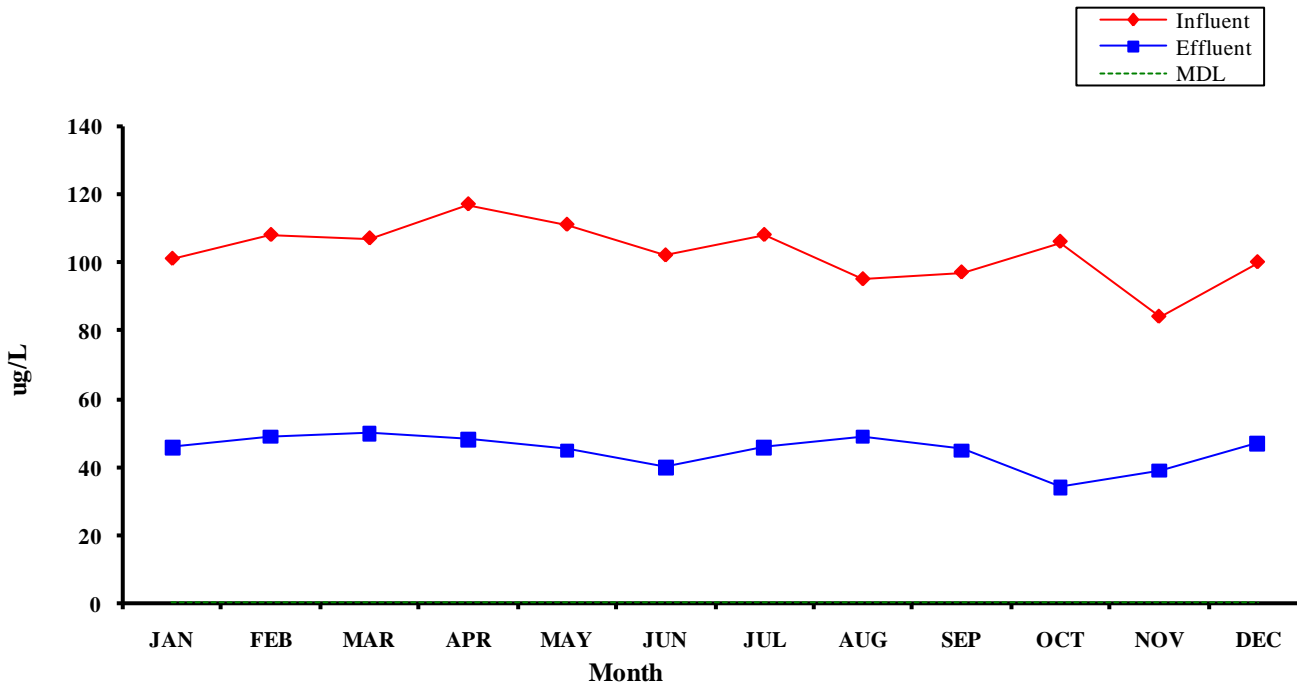
### Zinc 2009 Monthly Averages



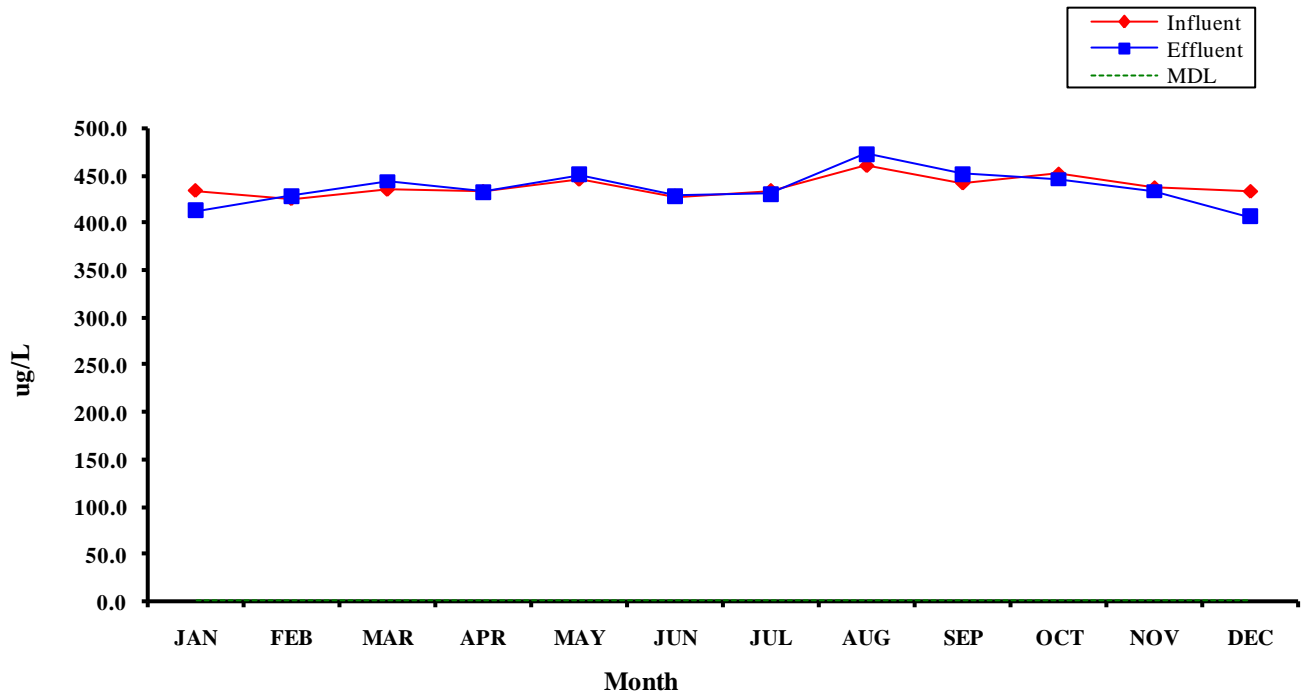
### Aluminum 2009 Monthly Averages



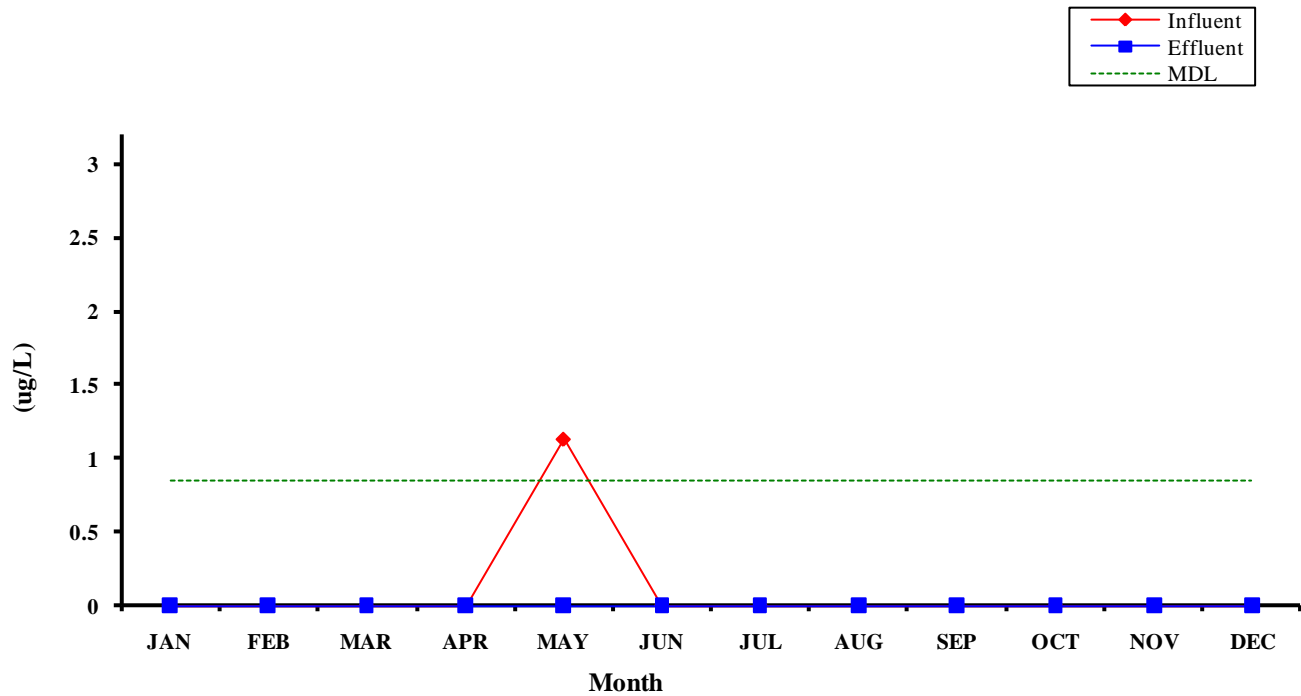
### Barium 2009 Monthly Averages



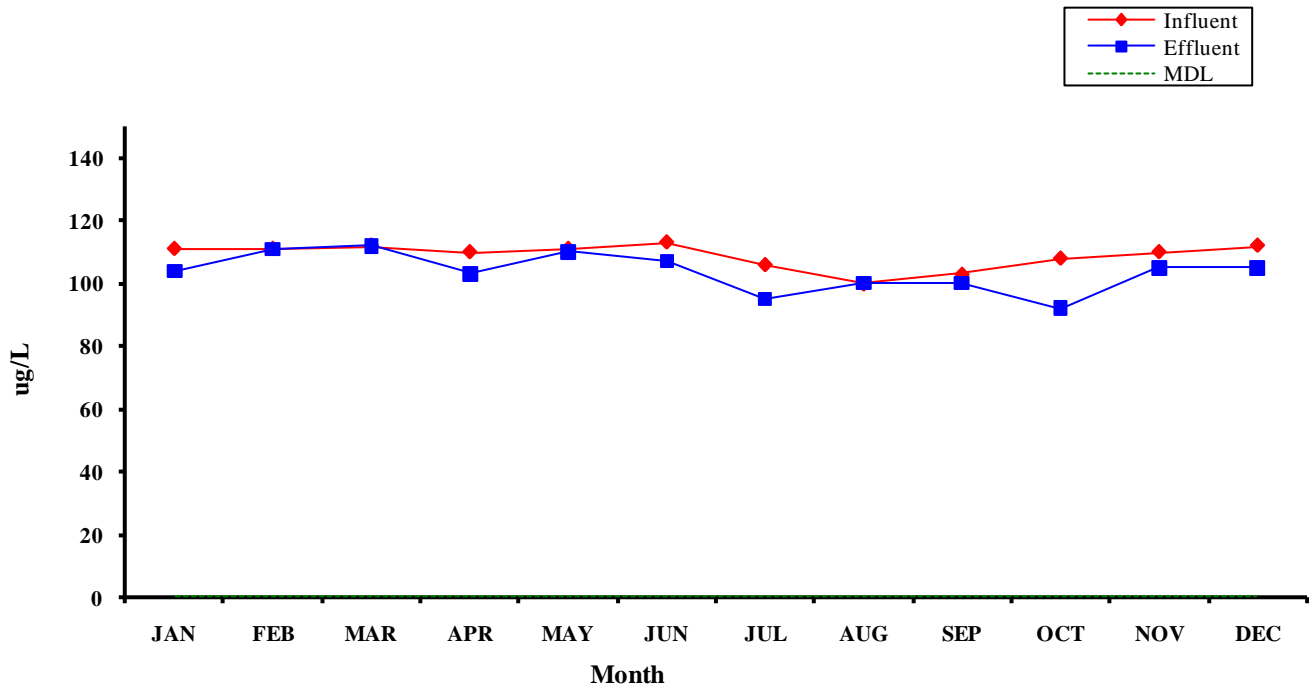
### Boron 2009 Monthly Averages



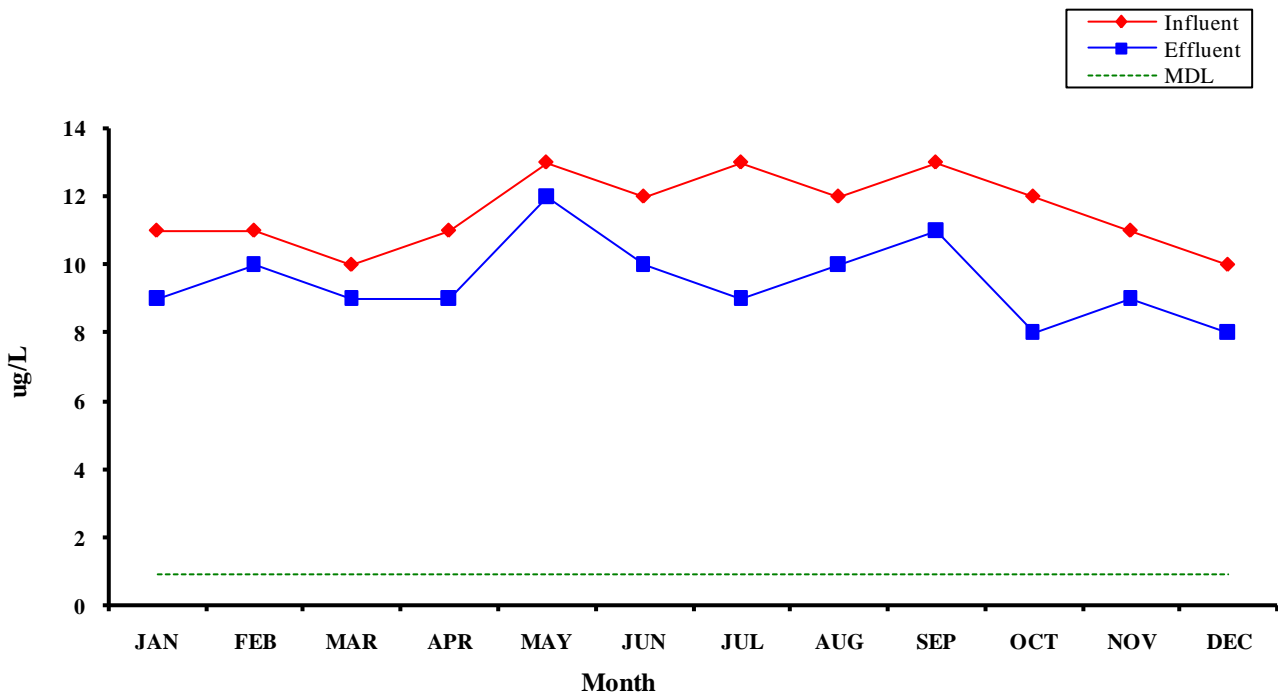
### Colbalt 2009 Monthly Averages



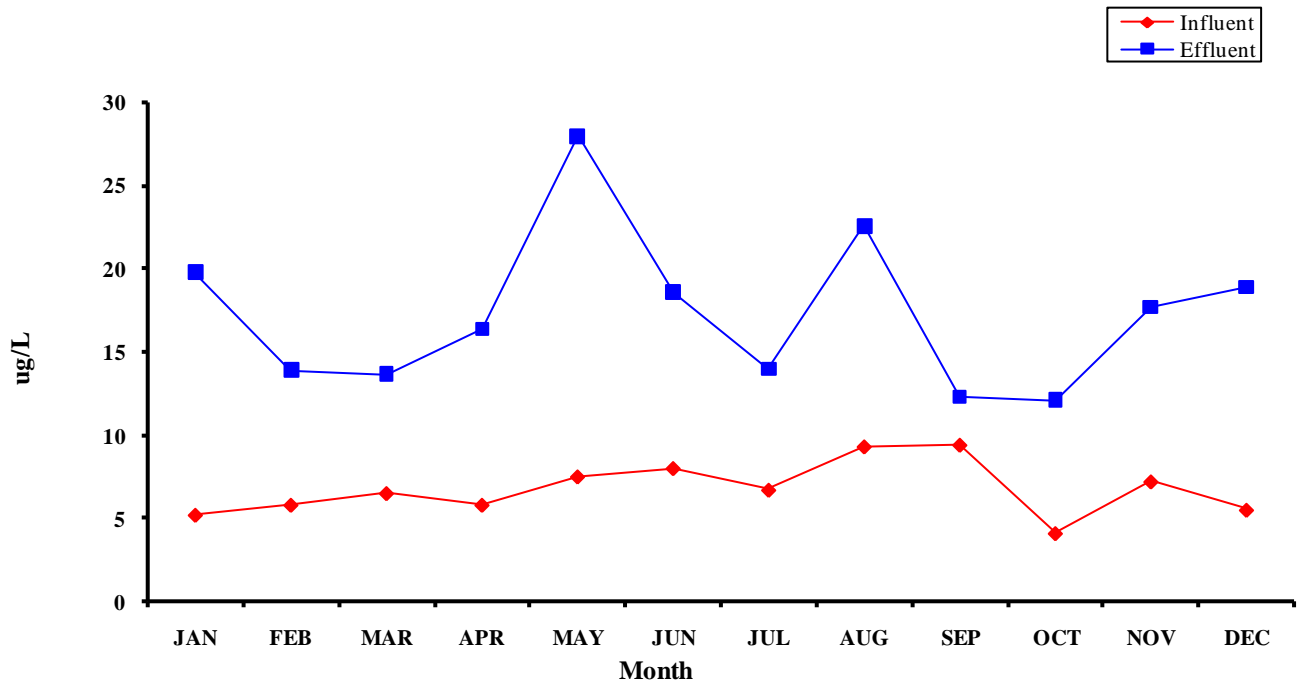
### Manganese 2009 Monthly Averages



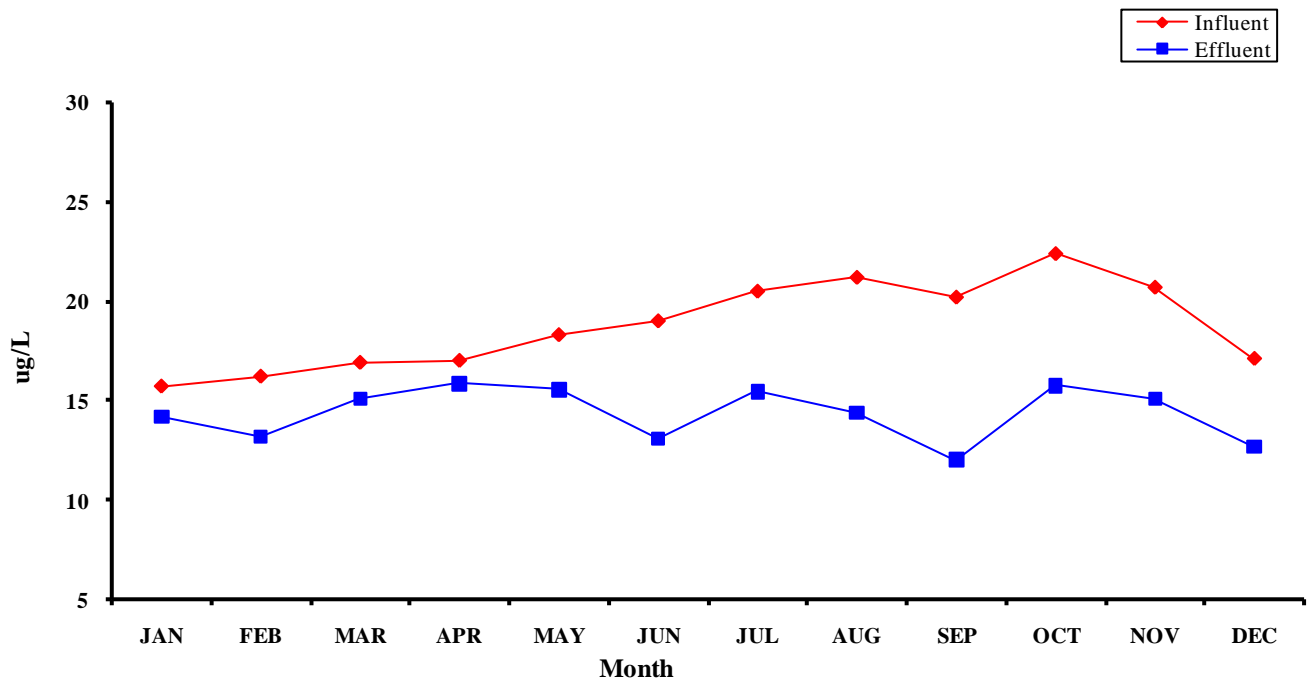
### Molybdeum 2009 Monthly Averages



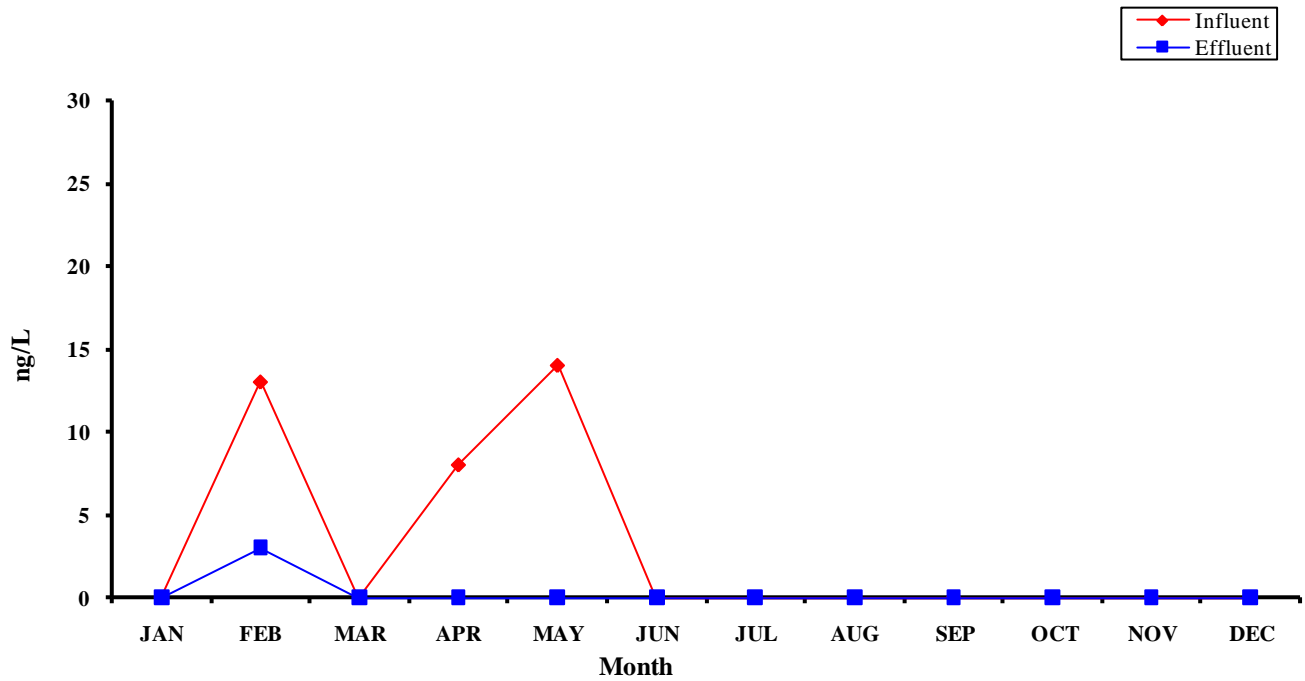
### Purgeables 2009 Monthly Averages



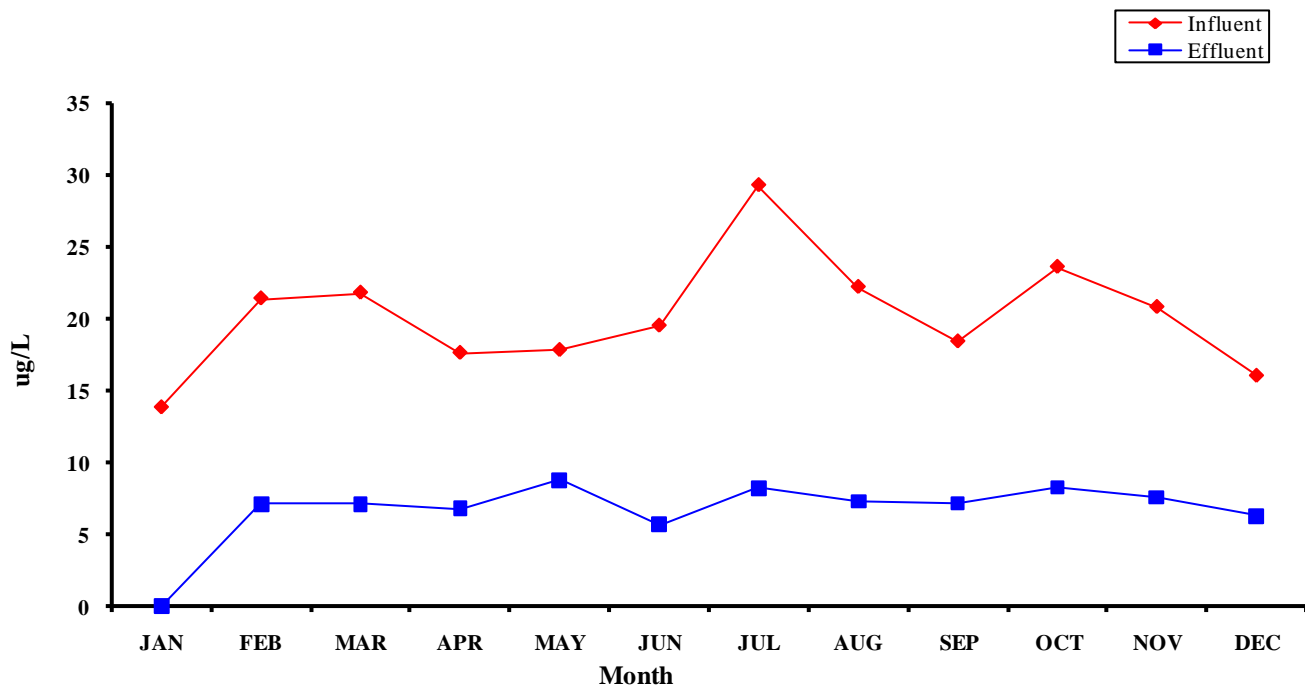
### Phenols 2009 Monthly Averages



### Total Chlorinated Hydrocarbons 2009 Monthly Averages

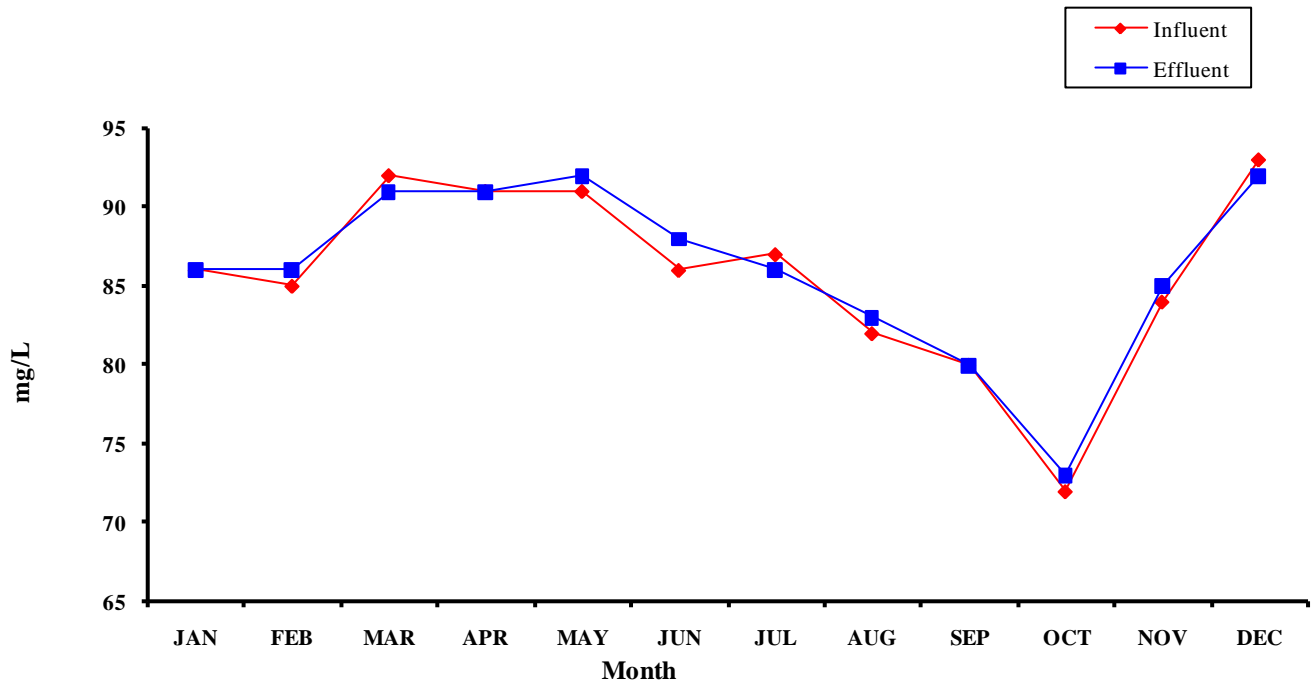


### Base Neutrals 2009 Monthly Averages

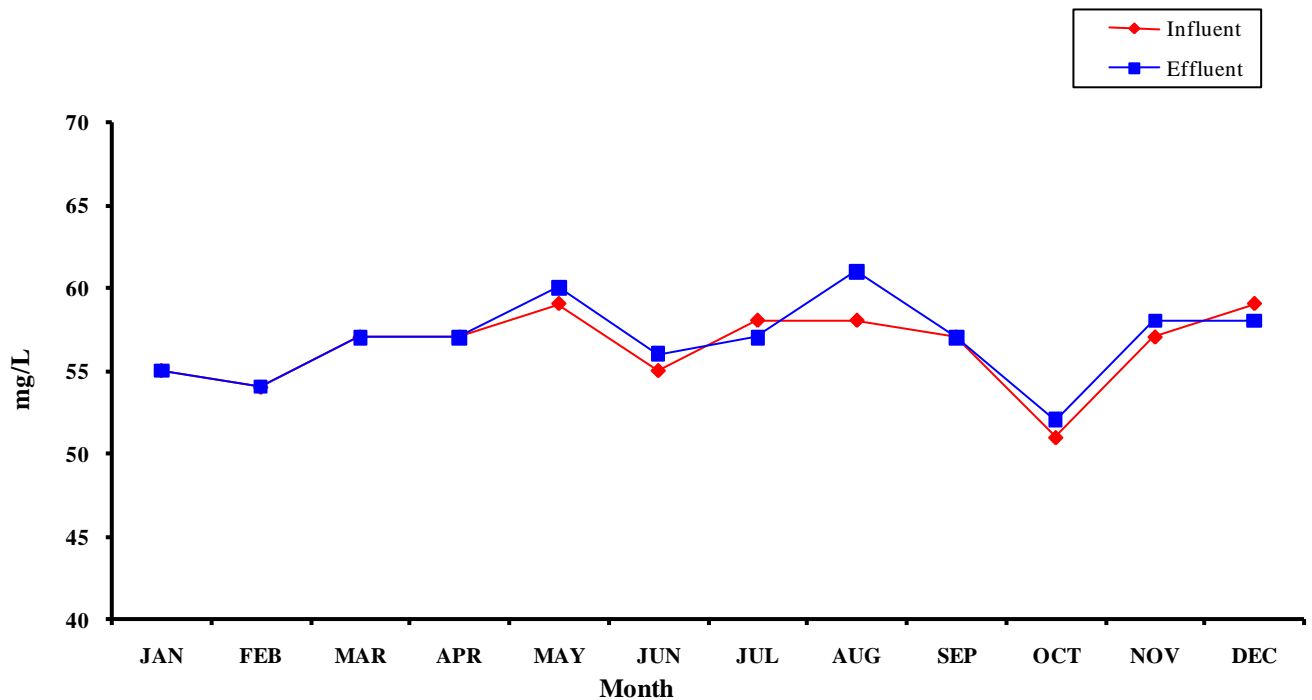




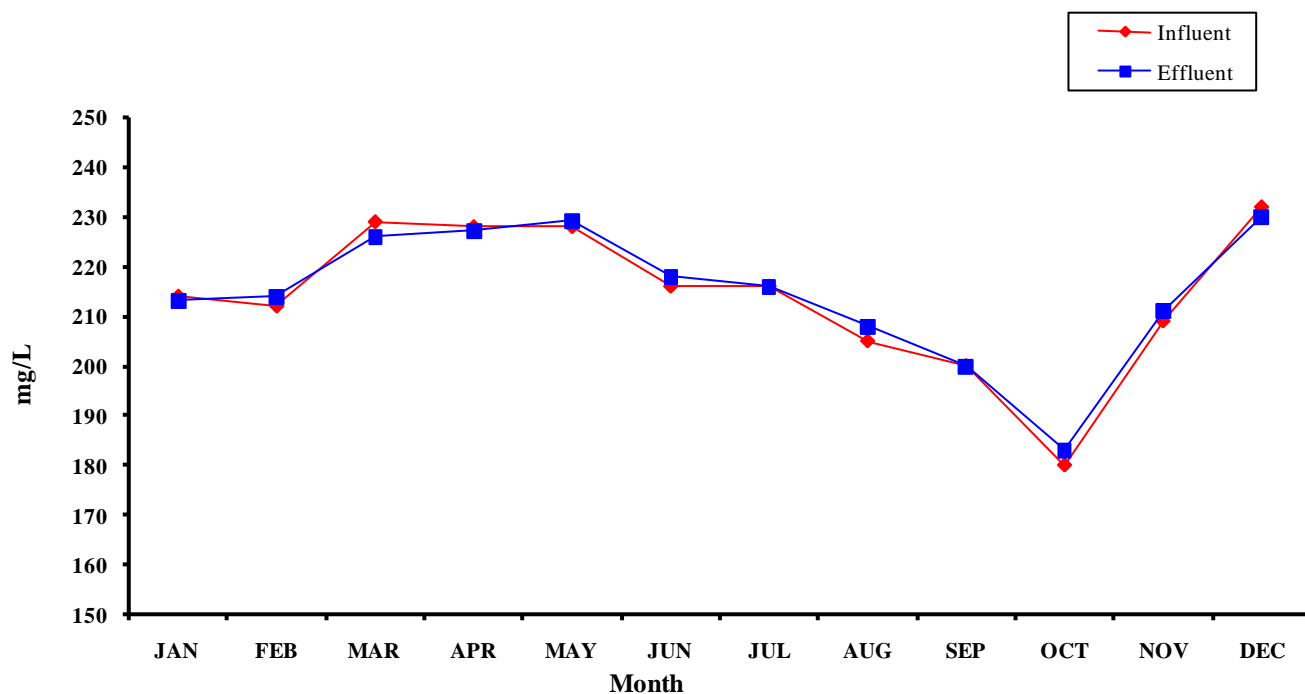
### Calcium 2009 Monthly Averages



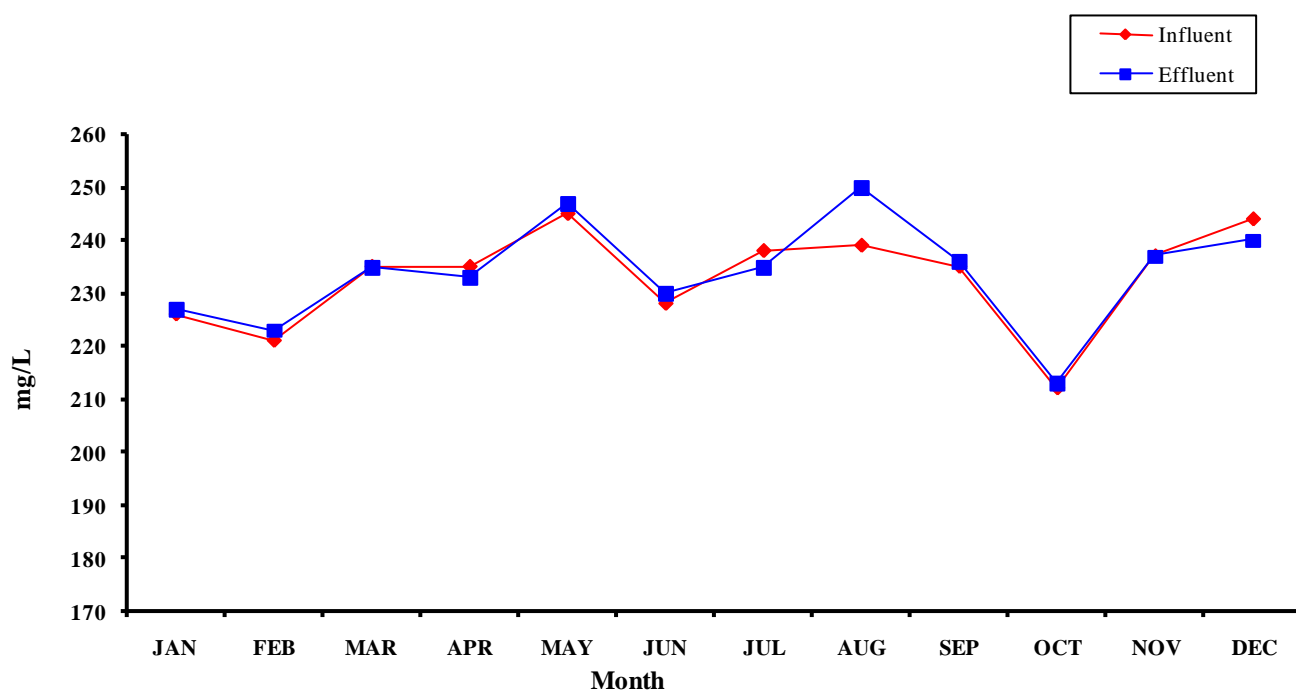
### Magnesium 2009 Monthly Averages



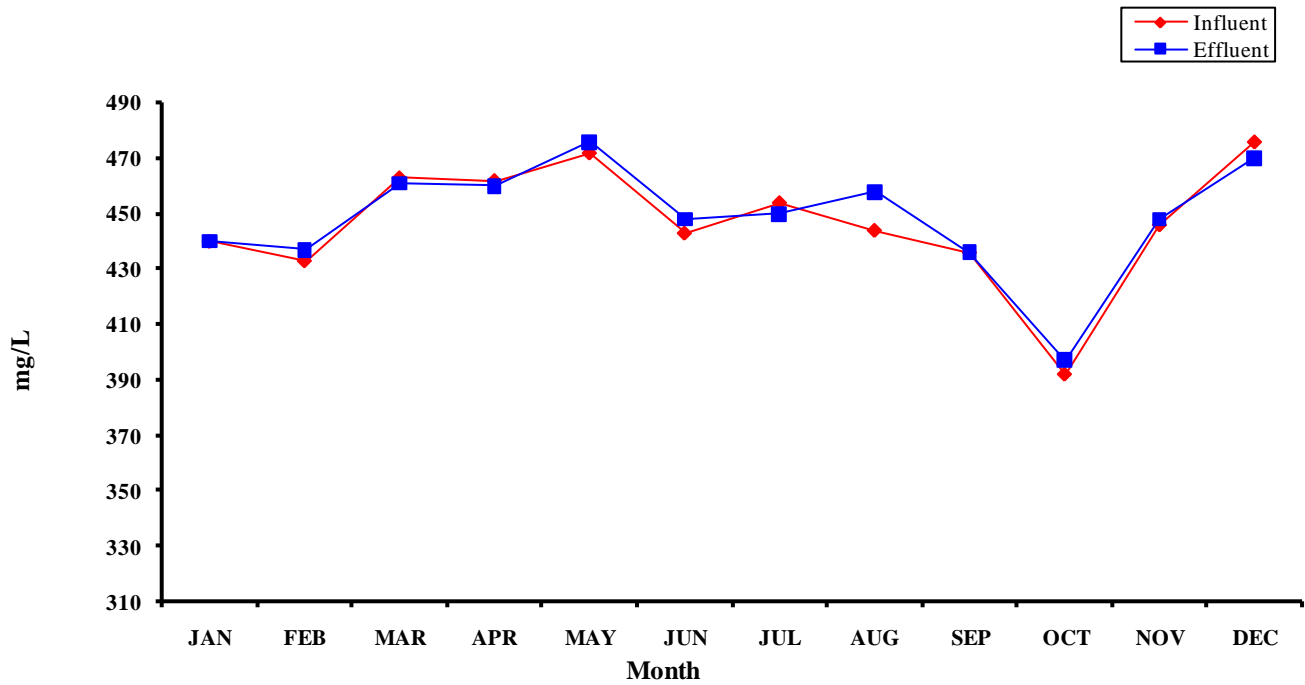
### Calcium Hardness 2009 Monthly Averages



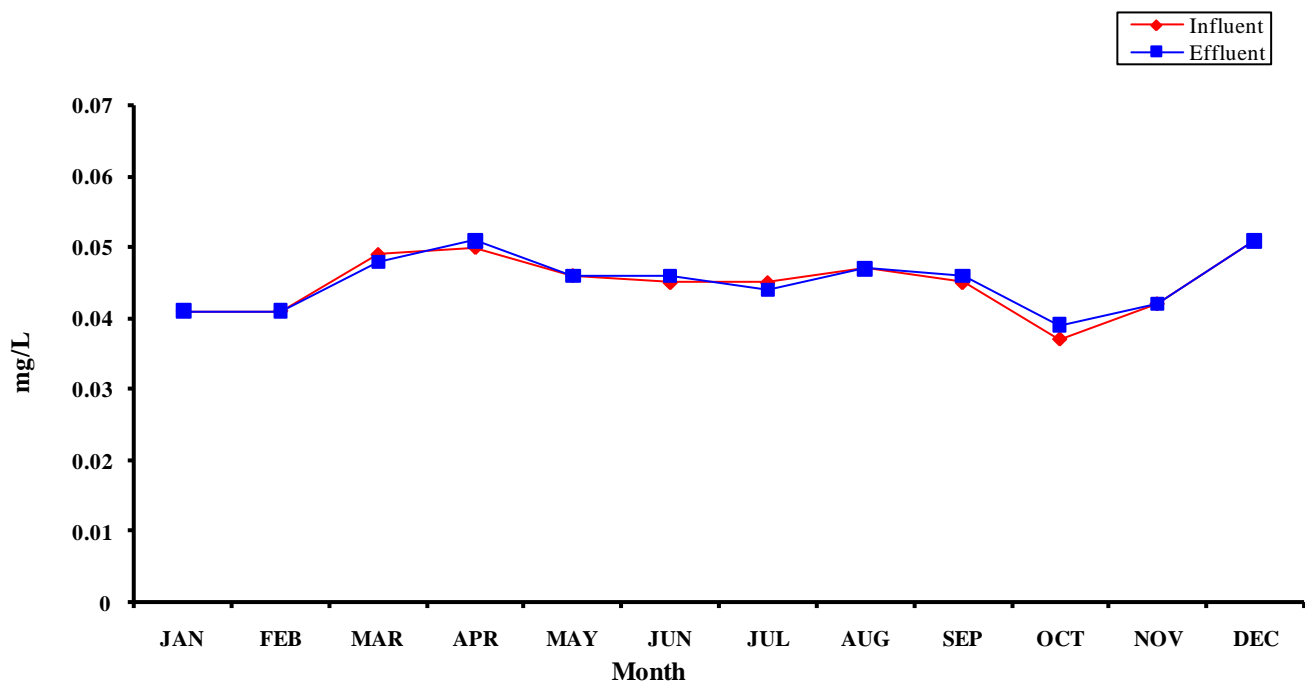
### Magnesium Hardness 2009 Monthly Averages



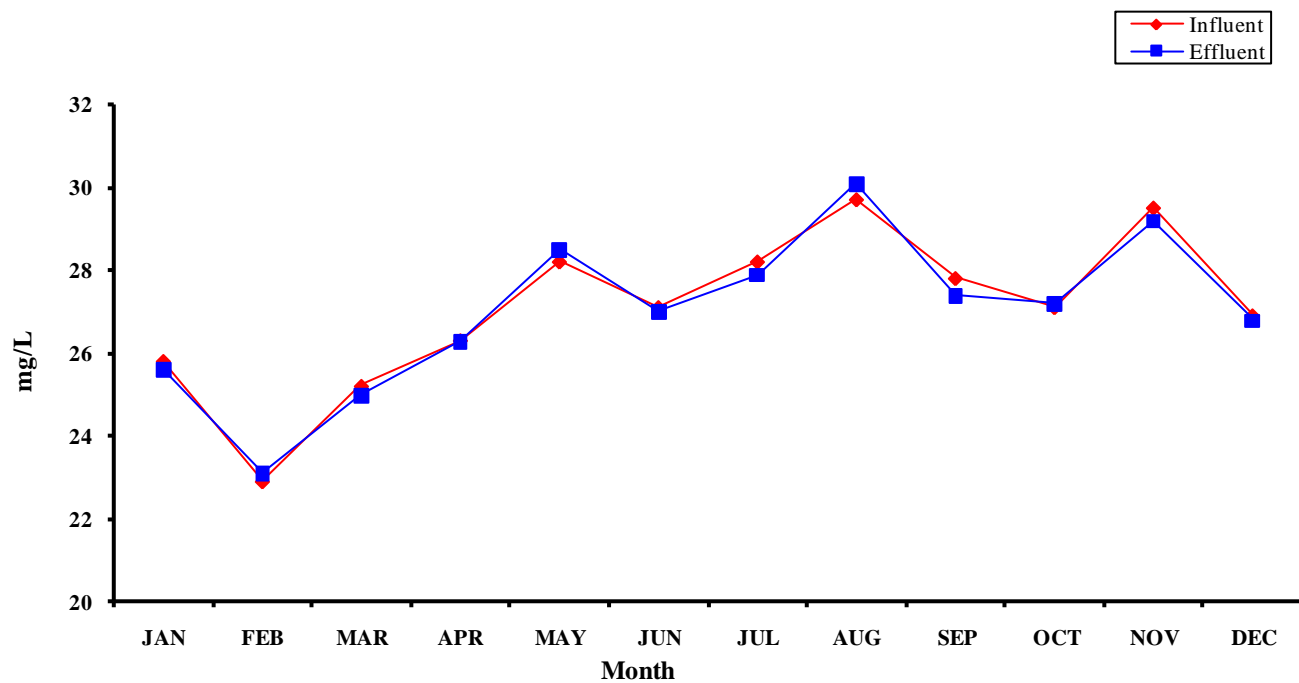
### Total Hardness 2009 Monthly Averages



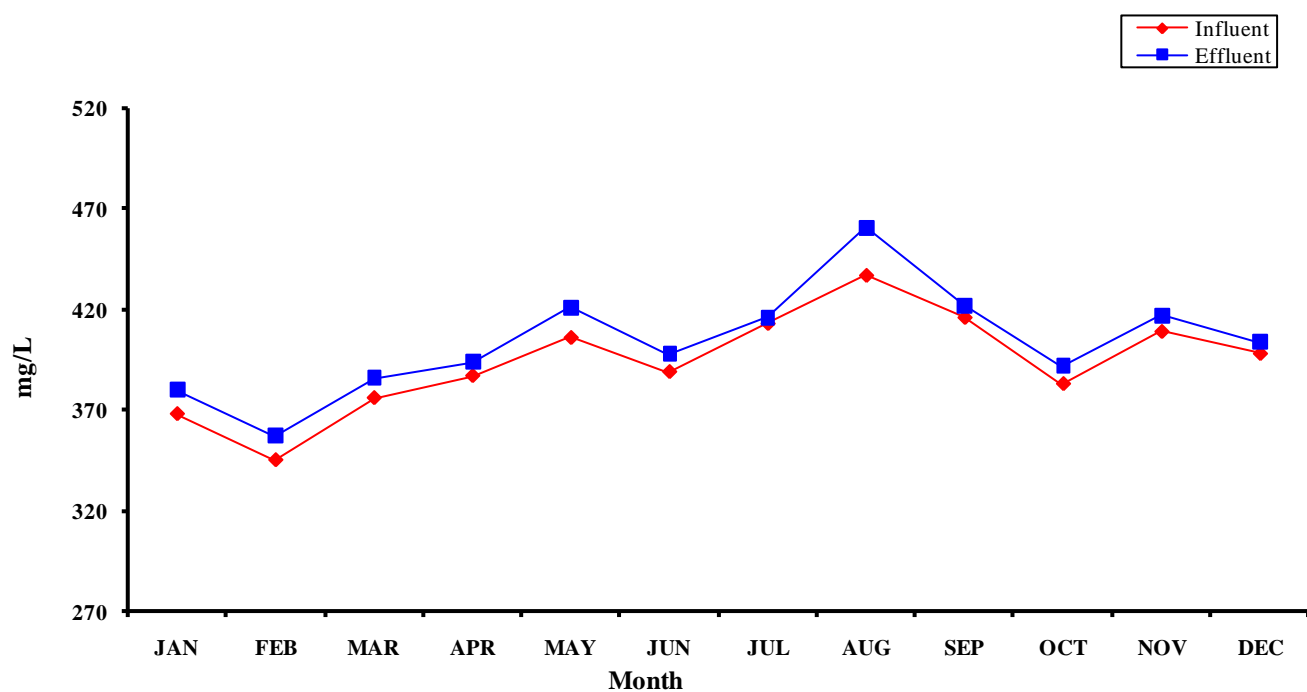
### Lithium 2009 Monthly Averages



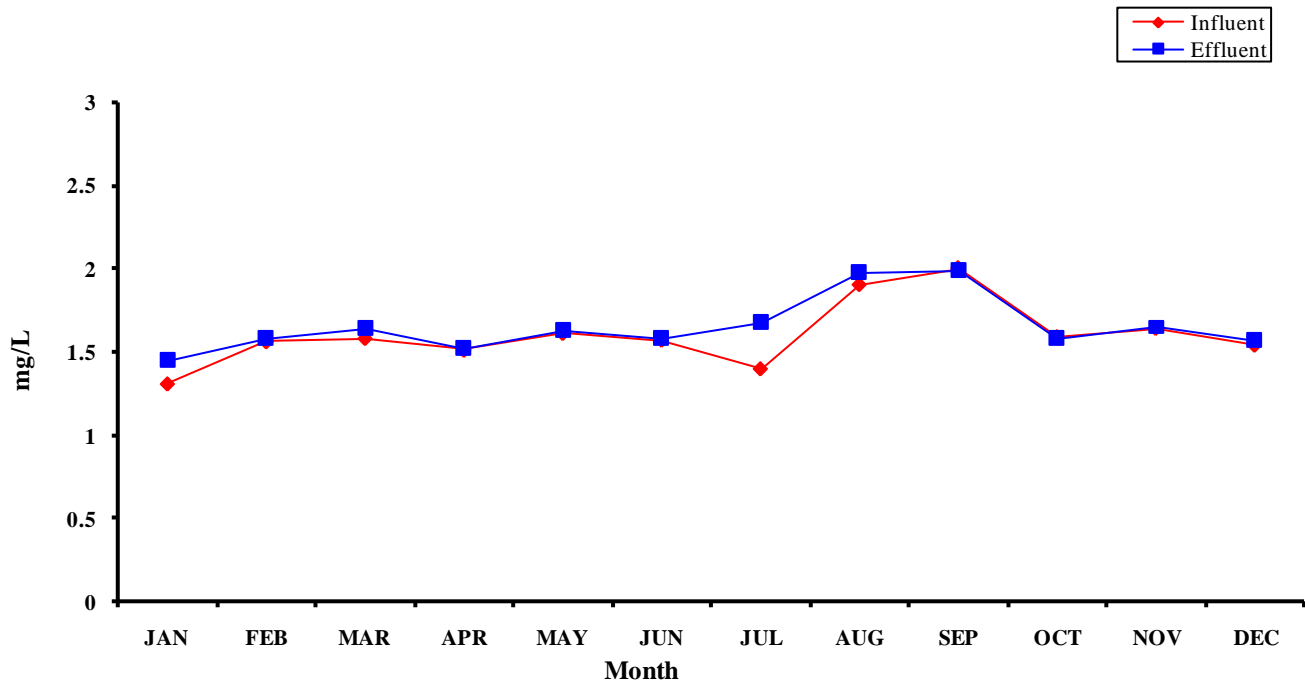
### Potassium 2009 Monthly Averages



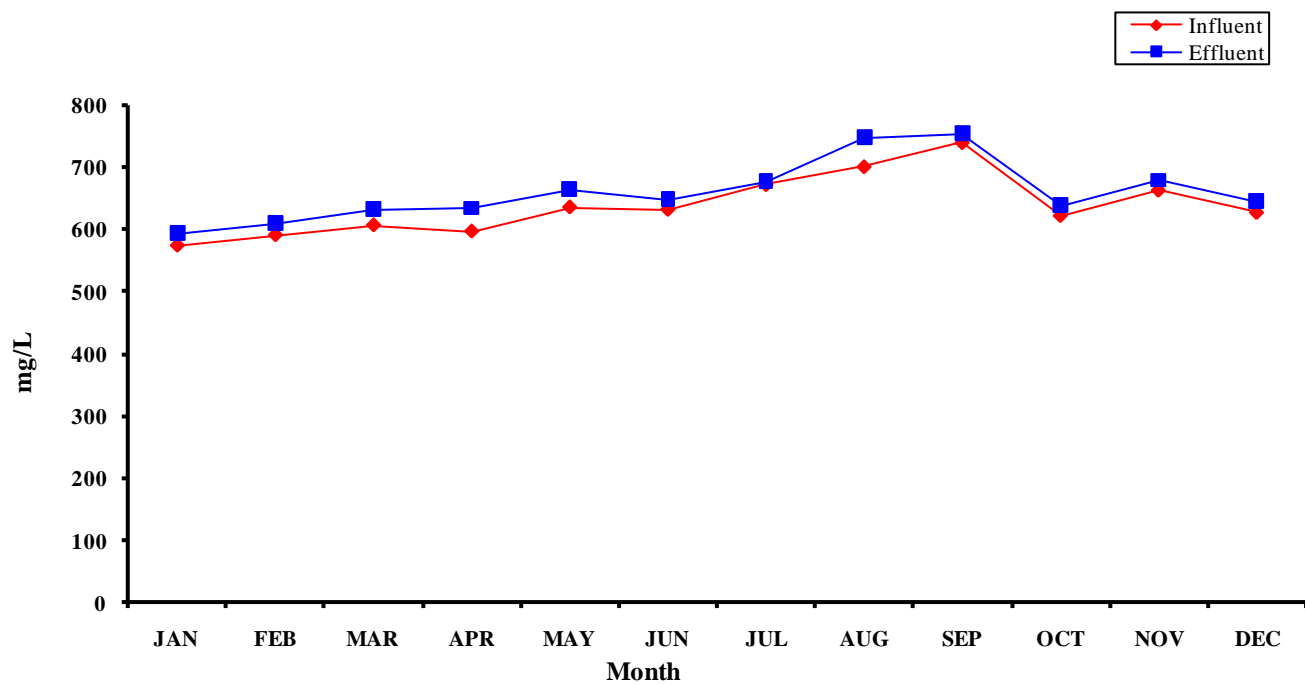
### Sodium 2009 Monthly Averages



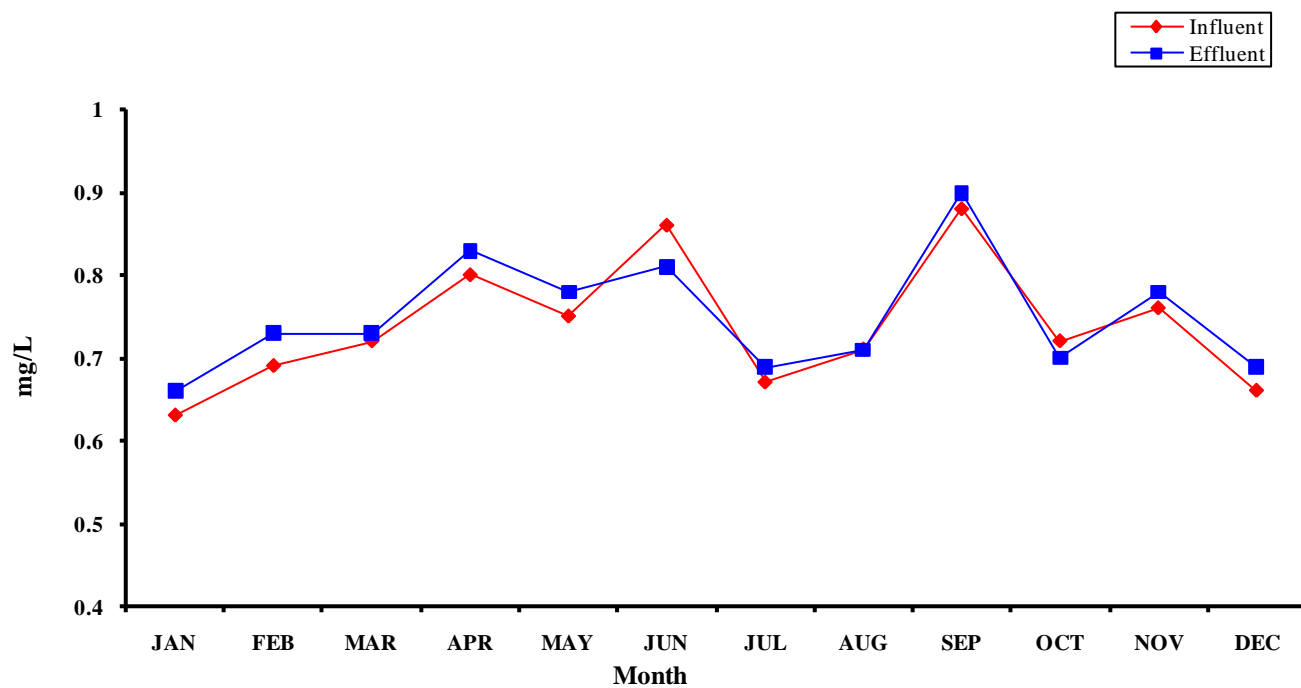
### Bromide 2009 Monthly Averages



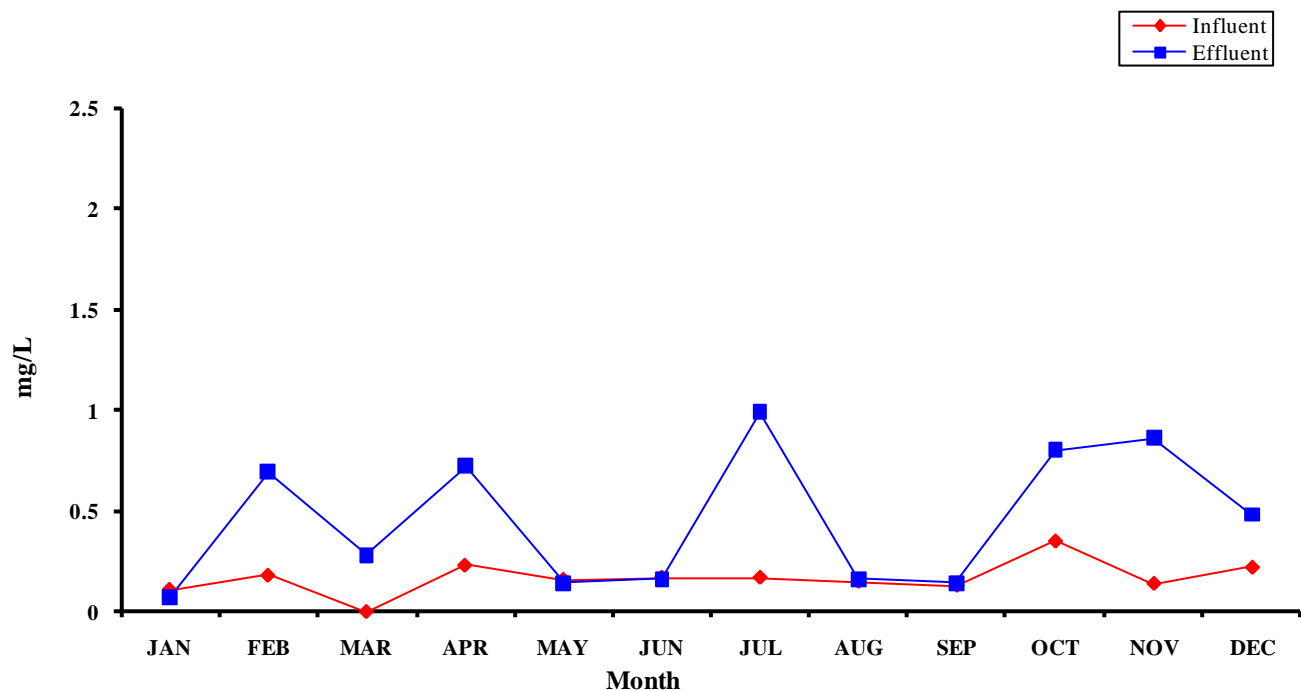
### Chloride 2009 Monthly Averages



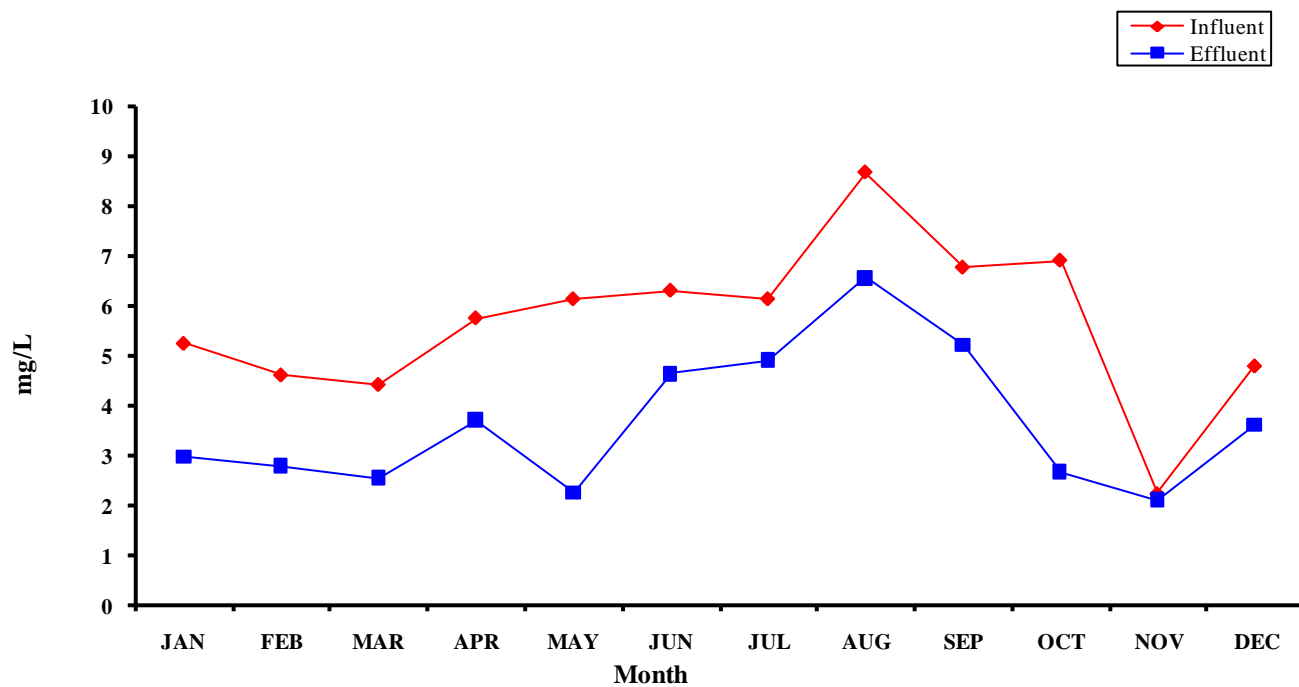
### Fluoride 2009 Monthly Averages



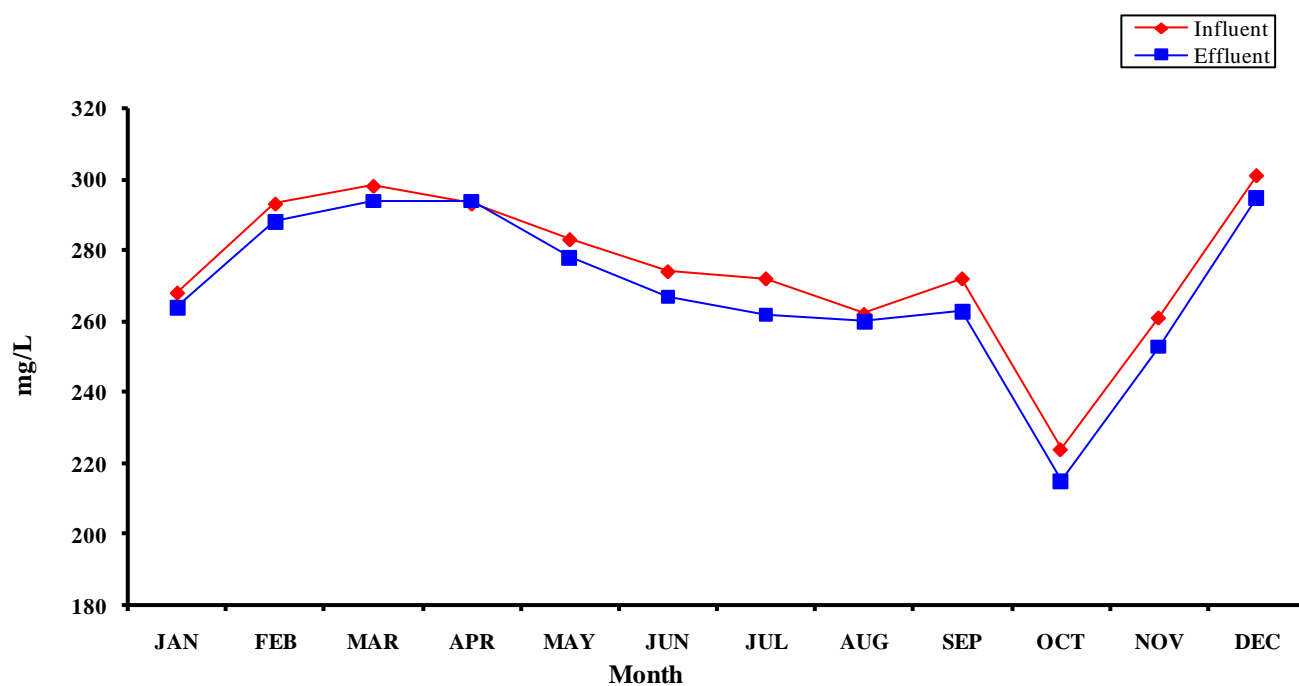
### Nitrate 2009 Monthly Averages



### O-Phosphate 2009 Monthly Averages



### Sulfate 2009 Monthly Averages



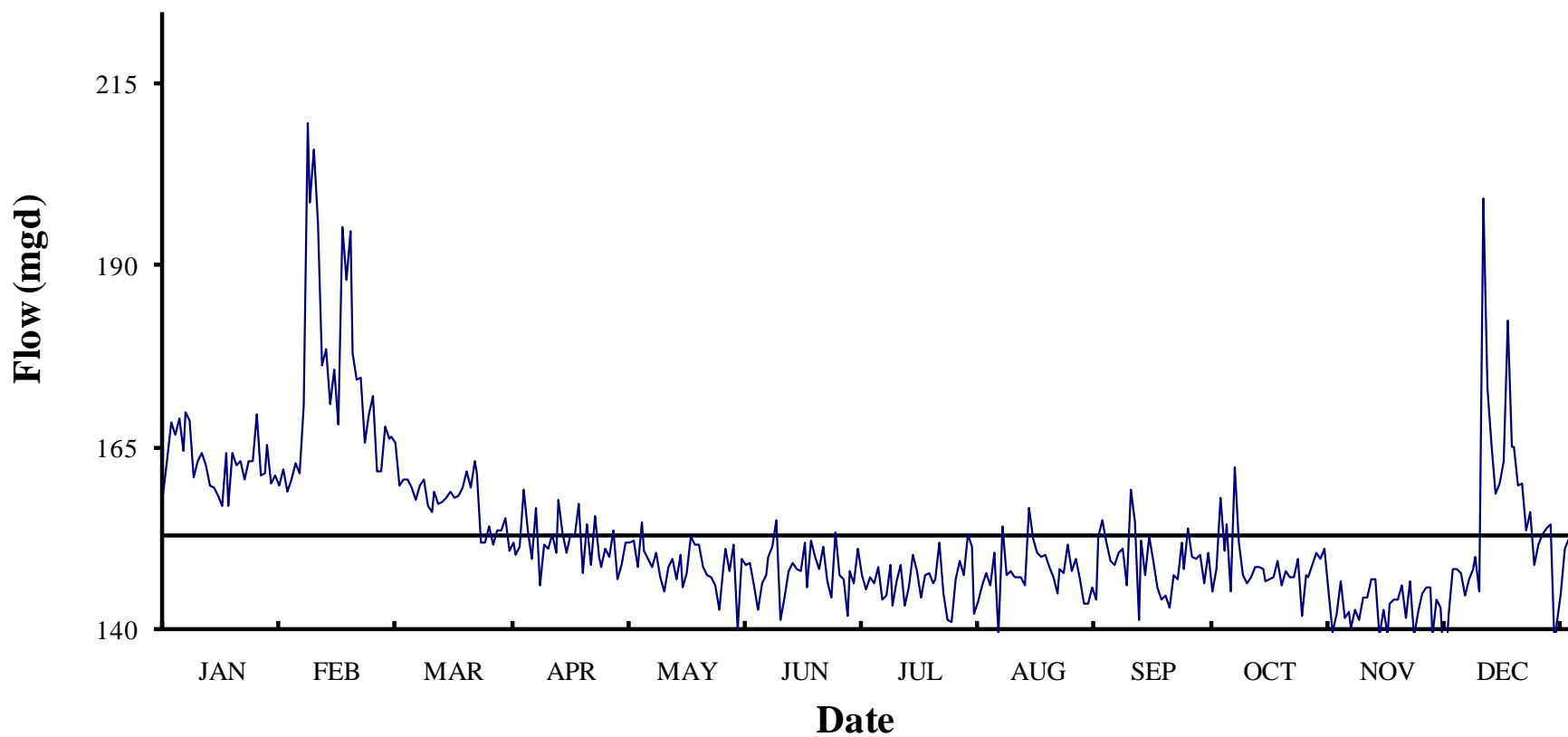
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#### E. Daily Values of Selected Parameters

Daily values of selected parameters (e.g. TSS, Flow, TSS Removals, etc.) are tabulated and presented graphically; statistical summary information is provided. The straight horizontal lines on the graphs in this section represent annual means for the constituent.

## Point Loma Wastewater Treatment Plant 2009 Daily Flows (mgd)

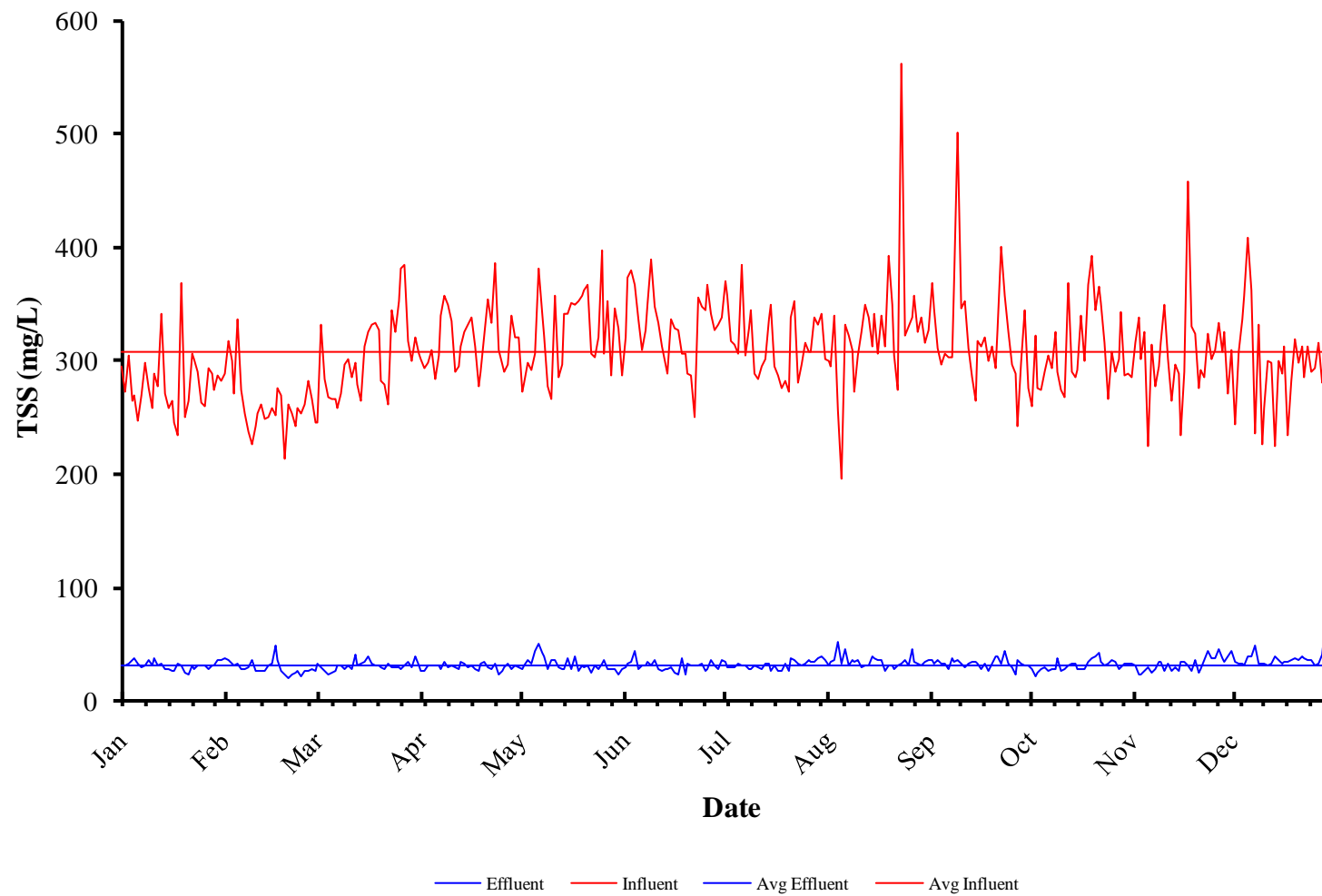


# Point Loma Wastewater Treatment Plant

## 2009 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	158.7	161.9	166.3	151.8	151.9	149.2	145.5	147.8	151.9	150.7	141.6	147.8	
2	163.4	158.7	165.6	150.3	152.3	145.9	147.2	146.1	149.4	154.5	142.5	144.7	
3	168.5	160.6	159.8	151.5	148.5	142.7	146.4	150.5	148.7	145.1	140.0	146.8	
4	166.8	162.7	160.6	159.3	154.7	146.3	148.6	139.2	150.4	162.1	142.5	148.3	
5	168.8	161.4	160.4	153.7	150.8	147.5	143.9	154.1	151.1	151.8	141.3	149.9	
6	164.4	170.6	159.3	149.6	149.6	149.8	144.5	147.5	146.1	147.5	144.4	145.2	
7	169.7	209.5	157.7	156.7	148.6	151.3	148.9	148.0	159.1	146.2	144.4	199.2	
8	168.6	198.7	159.8	146.0	150.4	155.1	143.3	147.1	154.8	147.1	147.0	173.1	
9	160.9	205.9	160.7	151.6	147.2	141.2	146.7	147.0	141.1	148.5	146.9	165.2	
10	162.9	195.7	157.0	151.2	145.1	144.3	148.7	147.1	152.3	148.4	139.1	158.5	
11	164.2	176.2	156.0	153.1	148.6	147.9	143.2	146.0	147.4	148.3	142.5	160.1	
12	162.6	178.5	159.0	150.4	149.7	149.0	145.6	156.7	152.7	146.4	139.3	163.0	
13	159.7	171.0	157.2	157.8	146.8	148.3	150.2	152.3	149.3	146.9	143.5	182.3	
14	159.5	175.8	157.5	153.2	150.3	148.0	148.0	150.5	145.7	147.1	144.1	165.1	
15	158.3	168.1	158.1	150.4	145.6	151.8	144.3	149.8	144.1	149.4	144.1	165.1	
16	156.9	195.3	158.9	153.0	147.6	145.7	147.5	150.3	144.6	146.1	146.1	159.8	
17	164.1	187.9	158.0	152.6	152.8	152.3	147.7	148.6	142.9	148.0	141.5	160.0	
18	156.9	194.7	158.4	157.2	151.5	150.1	146.2	147.3	147.4	147.2	146.7	153.6	
19	164.1	178.0	159.4	147.6	151.5	148.3	146.9	144.9	146.9	147.2	139.1	156.0	
20	162.6	174.4	161.6	154.4	148.6	151.3	151.8	148.4	152.0	149.5	142.3	148.7	
21	163.0	174.6	159.4	148.7	147.4	146.5	145.0	147.6	148.3	141.9	145.0	151.6	
22	160.7	165.5	163.1	155.7	147.1	144.5	141.3	151.7	153.8	147.3	145.6	153.1	
23	163.1	169.5	161.4	149.8	146.1	153.4	141.0	147.9	150.0	147.1	145.8	153.8	
24	163.0	171.9	152.0	148.6	142.6	147.5	146.8	149.6	149.8	148.9	139.1	154.5	
25	169.5	161.7	152.0	150.9	148.7	146.9	149.3	146.9	150.1	150.5	144.2	137.1	
26	161.2	161.8	154.1	150.0	150.9	141.9	147.4	143.4	146.2	149.5	143.1	140.8	
27	161.3	167.8	151.6	153.6	147.9	148.1	153.0	143.6	150.4	151.1	132.9	145.0	
28	165.2	166.3	153.5	147.0	151.7	146.2	151.5	145.8	145.2	145.1	142.2	151.0	
29	159.9		153.5	148.9	139.9	151.1	142.2	144.1	148.2	139.6	148.4	152.6	
30	161.1		155.4	151.9	149.7	147.5	143.9	152.7	158.0	142.2	148.4	149.8	Annual
31	159.8		150.8		148.8		146.1	155.0		146.6		158.0	Summary
Average	162.9	175.9	158.0	151.9	148.8	148.0	146.5	148.3	149.3	148.0	143.1	156.1	153.1
Minimum	156.9	158.7	150.8	146.0	139.9	141.2	141.0	139.2	141.1	139.6	132.9	137.1	132.9
Maximum	169.7	209.5	166.3	159.3	154.7	155.1	153.0	156.7	159.1	162.1	148.4	199.2	209.5
Total	5049.1	4924.7	4898.1	4556.3	4612.8	4439.4	4542.7	4597.5	4477.7	4588.0	4293.2	4839.6	55819.0

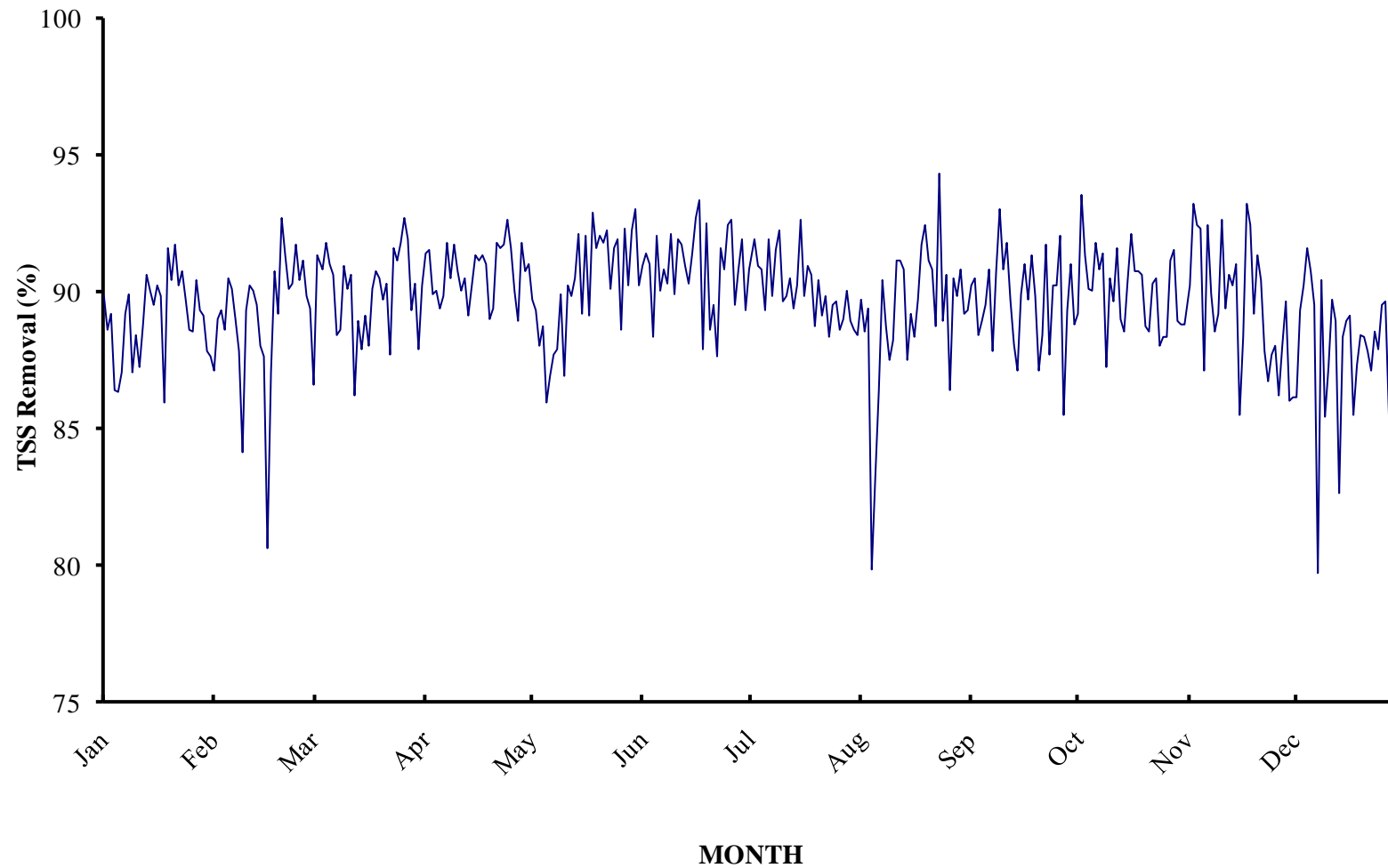
## Point Loma Wastewater Treatment Plant 2009 Total Suspended Solids



**2009 Total Suspended Solids (mg/L)**

Influent and Effluent Data Summary 2.101

## Point Loma Wastewater Treatment Plant 2009 TSS Removal (%) at Point Loma

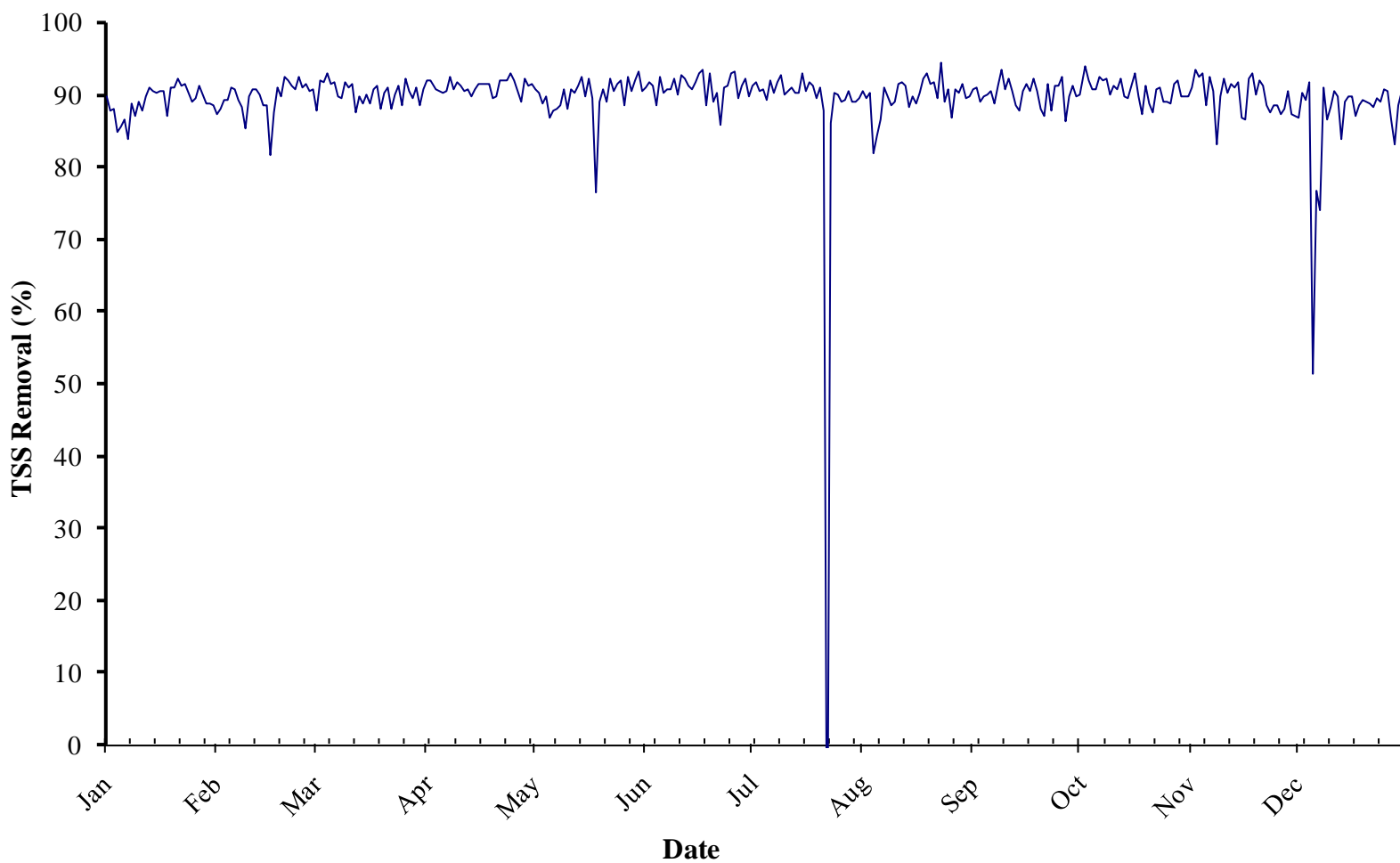


Point Loma Wastewater Treatment Plant

2009 Total Suspended Solids Removals (%) at Point Loma

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem	
1	90	87	87	91	90	91	91	90	90	89	90	86	
2	89	89	91	92	89	91	92	89	91	94	93	89	
3	89	89	91	90	88	91	91	89	88	91	92	90	
4	86	89	92	90	89	88	91	80	89	90	92	92	
5	86	91	91	89	86	92	89	83	90	90	87	91	
6	87	90	91	90	87	90	92	86	91	92	92	90	
7	89	89	88	92	88	91	90	90	88	91	90	80	
8	90	88	89	91	88	90	92	89	91	91	89	90	
9	87	84	91	92	90	92	92	88	93	87	89	85	
10	88	89	90	91	87	90	90	88	91	91	93	87	
11	87	90	91	90	90	92	90	91	92	90	89	90	
12	89	90	86	91	90	92	91	91	90	92	91	89	
13	91	90	89	89	91	91	89	91	88	89	90	83	
14	90	88	88	90	92	90	90	88	87	89	91	88	
15	90	88	89	91	89	91	93	89	90	90	86	89	
16	90	81	88	91	92	93	90	88	91	92	88	89	
17	90	87	90	91	89	93	91	90	90	91	93	86	
18	86	91	91	91	93	88	91	92	91	91	92	87	
19	92	89	91	89	92	93	89	92	90	91	89	88	
20	90	93	90	89	92	89	90	91	87	89	91	88	
21	92	91	90	92	92	90	89	91	88	89	90	88	
22	90	90	88	92	92	88	90	89	92	90	88	87	
23	91	90	92	92	90	92	88	94	88	91	87	89	
24	90	92	91	93	92	91	90	89	90	88	88	88	
25	89	90	92	92	92	92	90	91	90	88	88	90	
26	89	91	93	90	89	93	89	86	92	88	86	90	
27	90	90	92	89	92	90	89	91	86	91	88	85	
28	89	89	89	92	90	91	90	90	89	92	90	82	
29	89		90	91	92	92	89	91	91	89	86	87	
30	88		88	91	93	89	89	89	89	89	86	90	Annual
31	88		90		90		88	89		89		87	Summary
Avg	89	89	90	91	90	91	90	89	90	90	90	88	90
Min	86	81	86	89	86	88	88	80	86	87	86	80	80
Max	92	93	93	93	93	93	93	94	93	94	93	92	94

## Point Loma Wastewater Treatment Plant 2009 TSS Removal (%) Systemwide

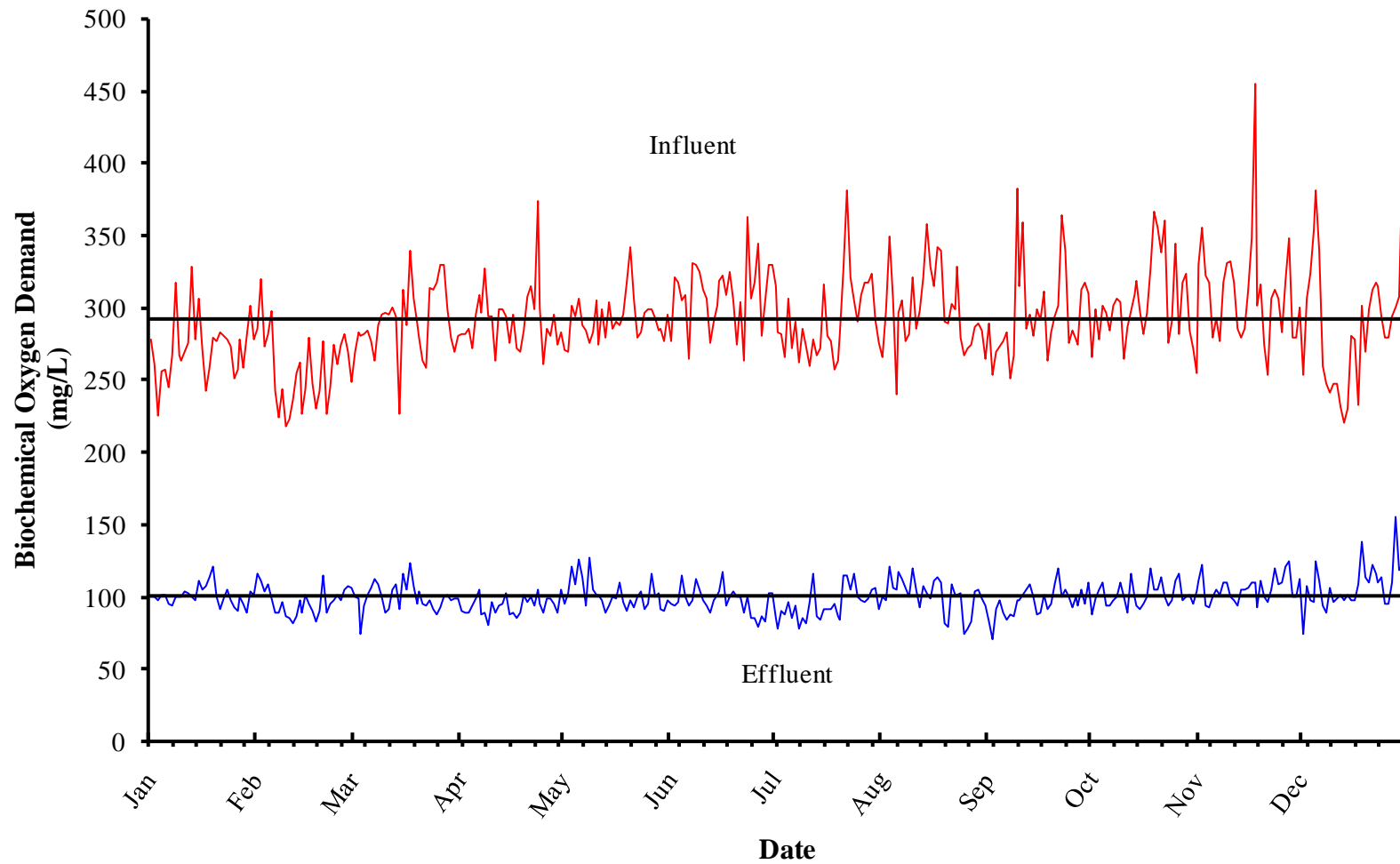




Point Loma Wastewater Treatment Plant  
**2009 Total Suspended Solids Removals (%) Systemwide**

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem	
1	90	87	88	92	91	91	91	91	91	90	91	87	
2	88	88	92	92	90	92	92	90	91	94	94	90	
3	88	89	92	91	89	91	91	90	89	92	93	89	
4	85	89	93	91	90	89	91	82	90	91	93	92	
5	86	91	92	90	87	93	89	85	90	91	89	51	
6	87	91	92	91	88	90	92	87	91	93	93	77	
7	84	89	90	93	88	91	90	91	89	92	91	74	
8	89	88	90	91	89	91	92	90	91	92	83	91	
9	87	86	92	92	91	92	93	89	93	90	90	87	
10	89	90	91	91	88	90	90	89	91	91	92	88	
11	88	91	92	91	91	93	91	92	92	91	90	91	
12	90	91	88	91	90	92	91	92	91	92	92	90	
13	91	90	90	90	91	91	90	91	89	90	91	84	
14	91	89	89	91	93	91	90	88	88	90	92	89	
15	90	89	90	92	90	92	93	90	91	91	87	90	
16	91	82	89	92	92	93	91	89	92	93	87	90	
17	91	88	91	92	90	93	92	90	91	90	92	87	
18	87	91	91	92	77	89	91	92	92	87	93	89	
19	91	90	88	90	89	93	90	93	91	91	90	89	
20	91	93	90	90	91	89	91	92	88	89	92	89	
21	92	92	91	92	89	90	88	92	87	88	91	89	
22	91	91	88	92	92	86	-27	90	92	91	89	88	
23	92	91	90	92	91	91	86	95	88	91	88	90	
24	90	93	91	93	92	91	90	89	91	89	89	89	
25	89	91	89	92	92	93	90	91	91	89	89	91	
26	90	92	92	91	89	93	89	87	93	89	87	91	
27	91	91	91	89	93	90	89	91	86	92	88	87	
28	90	91	90	92	91	91	91	90	90	92	91	83	
29	89		91	91	92	92	89	92	91	90	87	89	
30	89		89	92	93	90	89	90	90	90	87	91	
31	89		91		91		90	90		90		88	Annual Summary
Avg	89	90	90	91	90	91	87	90	90	91	90	87	90
Min	84	82	88	89	77	86	-27	82	86	87	83	51	-27
Max	92	93	93	93	93	93	93	95	93	94	94	92	95

## Point Loma Wastewater Treatment Plant 2009 Biochemical Oxygen Demand

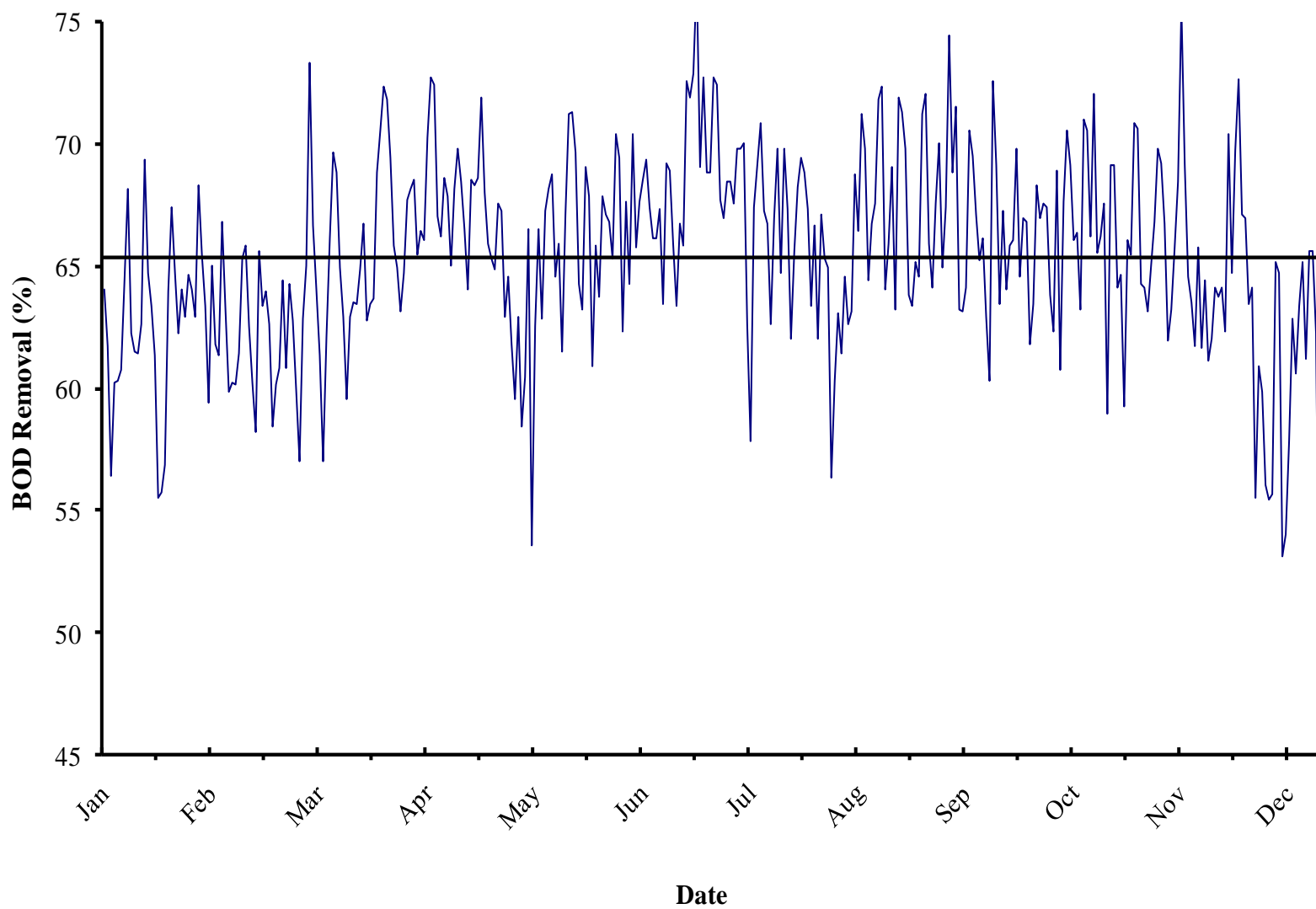


Point Loma Wastewater Treatment Plant

2009 Biochemical Oxygen Demand (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec			
Day	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		
1	278	100	286	116	269	100	282	91	271	96	277	96	315	86	266	101	289	83	266	88	330	112	254	75		
2	261	100	320	112	283	99	282	90	270	103	321	95	283	78	298	98	254	71	299	99	355	123	306	108		
3	225	98	273	104	281	75	286	90	302	122	317	97	282	91	349	121	270	92	278	106	322	94	324	98		
4	256	102	282	109	282	94	272	94	294	109	305	115	266	88	305	107	273	98	301	110	317	93	354	97		
5	257	102	298	99	284	102	295	99	306	127	309	100	307	97	240	105	277	90	297	94	280	100	381	125		
6	245	96	242	89	277	107	309	105	288	114	265	95	272	86	297	118	283	85	284	94	293	105	339	112		
7	267	95	224	90	263	113	296	88	284	95	331	98	290	94	305	113	251	88	302	98	277	102	260	95		
8	317	101	244	97	288	109	327	89	276	128	330	113	262	79	277	107	267	87	307	100	317	111	248	89		
9	267	101	218	87	295	100	294	81	283	106	325	105	285	86	282	100	383	98	304	110	331	110	241	107		
10	263	101	223	86	296	90	294	97	305	102	312	98	273	82	321	120	315	98	265	100	332	100	248	97		
11	270	104	236	82	295	92	263	89	275	102	307	94	260	97	285	105	359	102	287	89	318	98	247	99		
12	276	103	255	87	300	105	299	94	299	98	276	90	278	117	298	93	285	105	298	117	286	95	232	102		
13	329	101	262	98	294	109	299	96	279	89	290	98	267	87	321	108	295	109	309	100	279	106	220	98		
14	278	98	226	90	227	92	294	103	304	95	301	102	272	84	358	103	281	101	319	94	285	105	230	102		
15	306	112	244	102	313	116	276	88	285	101	319	104	316	92	328	99	299	88	298	92	312	107	281	98		
16	271	105	279	96	288	105	295	89	290	99	322	118	281	92	315	112	292	89	282	96	348	110	278	98		
17	243	108	248	91	339	124	272	86	288	111	309	95	277	92	342	114	311	102	297	100	455	111	233	109		
18	258	114	230	83	307	108	269	90	295	97	325	101	257	96	339	110	264	92	327	120	301	93	302	139		
19	280	121	243	91	289	96	284	102	317	91	305	104	263	87	291	82	283	96	366	106	316	112	270	114		
20	277	100	277	115	279	104	308	97	342	98	275	101	282	85	289	80	294	109	356	105	274	100	299	111		
21	283	92	226	90	263	96	315	100	306	93	304	101	326	115	303	109	302	120	338	114	254	97	313	123		
22	281	99	245	96	258	94	299	94	279	100	263	90	381	115	299	102	364	100	361	101	306	105	317	116		
23	278	105	275	98	314	98	374	105	283	104	363	100	321	105	329	102	340	105	276	95	313	120	315	110		
24	273	98	261	102	312	92	300	96	297	92	306	86	305	116	280	103	276	101	290	98	306	109	294	114		
25	251	93	274	98	318	88	261	89	299	96	317	86	291	100	267	75	284	93	345	112	283	110	279	96		
26	257	91	282	105	330	93	285	99	299	117	345	80	309	98	272	78	278	100	282	116	319	121	279	96		
27	278	100	269	108	330	101	281	99	293	100	281	87	317	97	275	83	275	94	318	98	348	125	294	111		
28	259	96	249	107	299	102	295	96	284	103	305	83	317	99	287	104	312	106	324	100	279	101	300	156		
29	281	89			279	98	274	90	286	92	330	103	324	106	289	106	318	96	284	102	279	100	308	119		
30	301	104			269	99	283	105	277	91	330	103	292	107	284	99	310	110	272	96	300	113	407	123		
31	278	102			281	99			295	98			276	92	265	94			255	104			289	147		
Summary																										
Avg	272	101	257	97	291	100	292	94	292	102	309	98	292	95	300	102	296	97	304	102	311	106	288	108	295	100
Min	225	89	218	82	227	75	261	81	270	89	263	80	257	78	240	75	251	71	255	88	254	93	220	75	220	71
Max	329	121	320	116	339	124	374	105	342	128	363	118	381	117	358	121	383	120	366	120	455	125	407	156	455	156

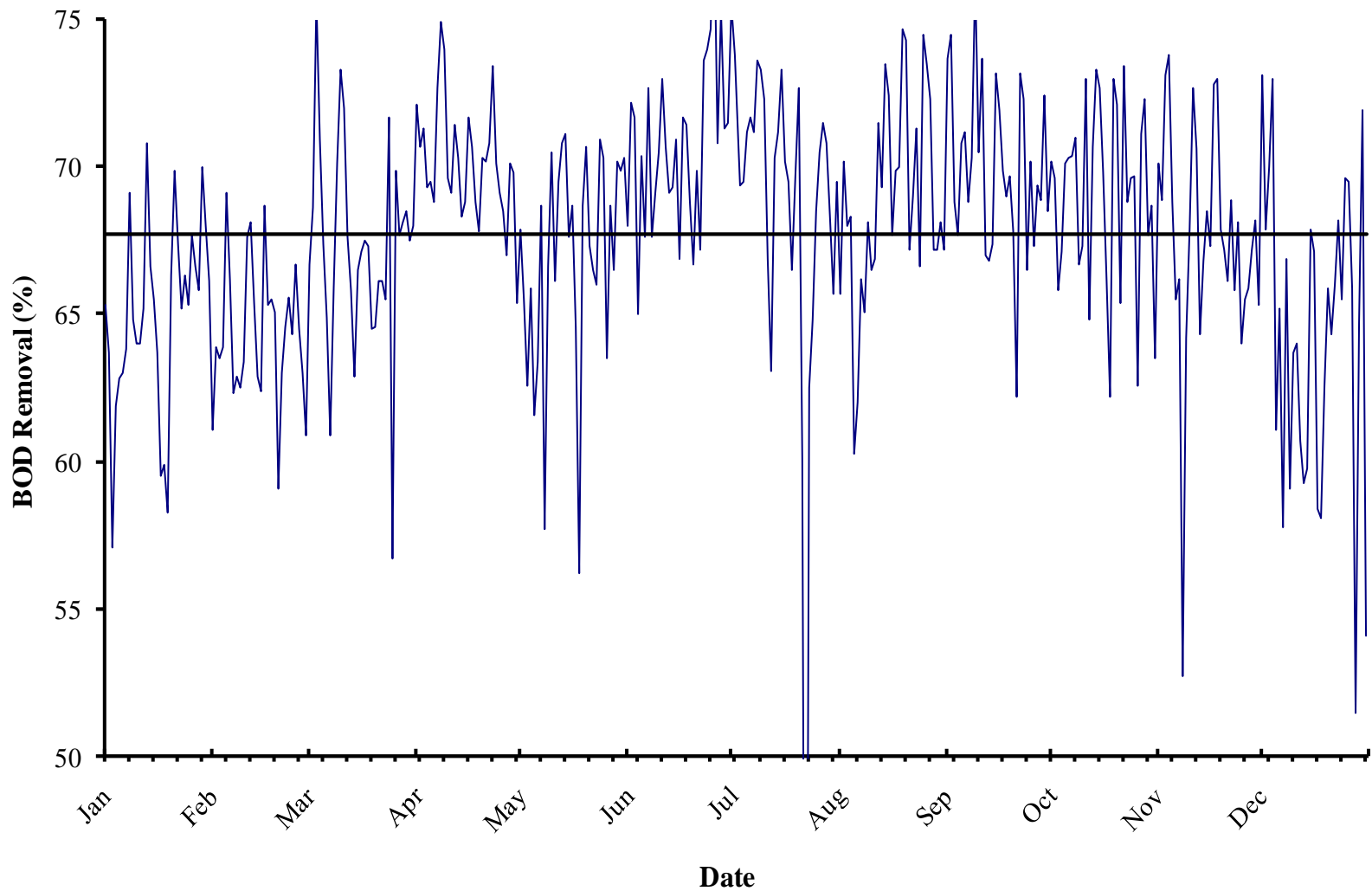
## Point Loma Wastewater Treatment 2009 BOD Removal (%) at Point Loma



Point Loma Wastewater Treatment Plant  
2009 Biochemical Oxygen Demand Removals (%) at Point Loma

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem	
1	64	59	63	68	65	65	73	62	71	67	66	70	
2	62	65	65	68	62	70	72	67	72	67	65	65	
3	56	62	73	69	60	69	68	65	66	62	71	70	
4	60	61	67	65	63	62	67	65	64	63	71	73	
5	60	67	64	66	58	68	68	56	68	68	64	67	
6	61	63	61	66	60	64	68	60	70	67	64	67	
7	64	60	57	70	67	70	68	63	65	68	63	63	
8	68	60	62	73	54	66	70	61	67	67	65	64	
9	62	60	66	72	63	68	70	65	74	64	67	56	
10	62	61	70	67	67	69	70	63	69	62	70	61	
11	61	65	69	66	63	69	63	63	72	69	69	60	
12	63	66	65	69	67	67	58	69	63	61	67	56	
13	69	63	63	68	68	66	67	66	63	68	62	55	
14	65	60	60	65	69	66	69	71	64	71	63	56	
15	63	58	63	68	65	67	71	70	71	69	66	65	
16	61	66	64	70	66	63	67	64	70	66	68	65	
17	56	63	63	68	62	69	67	67	67	66	76	53	
18	56	64	65	67	67	69	63	68	65	63	69	54	
19	57	63	67	64	71	66	67	72	66	71	65	58	
20	64	58	63	69	71	63	70	72	63	71	64	63	
21	67	60	63	68	70	67	65	64	60	66	62	61	
22	65	61	64	69	64	66	70	66	73	72	66	63	
23	62	64	69	72	63	73	67	69	69	66	62	65	
24	64	61	71	68	69	72	62	63	63	66	64	61	
25	63	64	72	66	68	73	66	72	67	68	61	66	
26	65	63	72	65	61	77	68	71	64	59	62	66	
27	64	60	69	65	66	69	69	70	66	69	64	62	
28	63	57	66	68	64	73	69	64	66	69	64	48	
29	68		65	67	68	69	67	63	70	64	64	61	
30	65		63	63	67	69	63	65	65	65	62	70	
31	63		65		67		67	65		59		49	Annual Summary
Avg	62.7	62.0	65.4	67.6	64.9	68.1	67.3	65.8	67.1	66.2	65.5	61.7	65.3
Min	55.5	57.0	57.0	62.9	53.5	62.3	57.8	56.3	60.3	58.9	61.1	48.0	48.0
Max	69.3	66.8	73.3	72.7	71.3	76.8	72.7	72.3	74.4	72.0	75.6	72.6	76.8

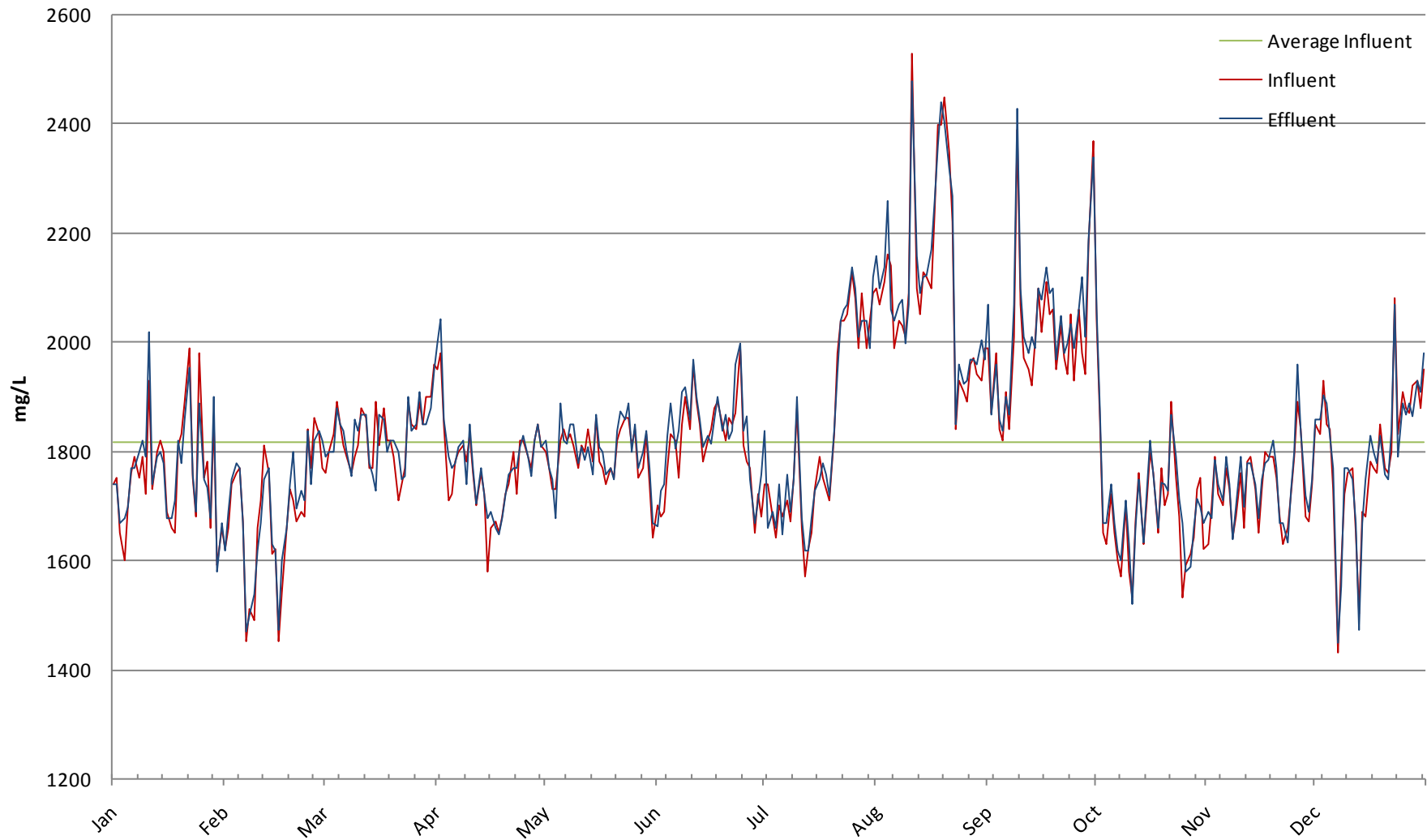
## Point Loma Wastewater Treatment Plant 2009 BOD Removal (%) Systemwide



Point Loma Wastewater Treatment Plant  
2009 Biochemical Oxygen Demand Removals (%) Systemwide

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem	
1	65	61	67	72	68	68	76	66	74	70	70	73	
2	64	64	69	71	66	72	74	70	75	70	69	68	
3	57	64	76	71	63	72	69	68	69	66	73	70	
4	62	64	71	69	66	65	70	68	68	67	74	73	
5	63	69	67	70	62	70	71	60	71	70	69	61	
6	63	66	65	69	63	68	72	62	71	70	66	65	
7	64	62	61	73	69	73	71	66	69	70	66	58	
8	69	63	66	75	58	68	74	65	70	71	53	67	
9	65	63	70	74	67	69	73	68	76	67	64	59	
10	64	63	73	70	71	71	72	67	71	67	68	64	
11	64	68	72	69	66	73	67	67	74	73	73	64	
12	65	68	68	71	70	71	63	72	67	65	71	61	
13	71	65	66	70	71	69	70	69	67	71	64	59	
14	67	63	63	68	71	69	71	74	67	73	67	60	
15	66	62	67	69	68	71	73	72	73	73	69	68	
16	64	69	67	72	69	67	70	68	72	70	67	67	
17	60	65	68	71	65	72	70	70	70	66	73	58	
18	60	66	67	69	56	71	67	70	69	62	73	58	
19	58	65	65	68	69	69	70	75	70	73	68	63	
20	66	59	65	70	71	67	73	74	68	72	67	66	
21	70	63	66	70	67	70	60	67	62	65	66	64	
22	67	65	66	71	67	67	27	69	73	73	69	66	
23	65	66	66	73	66	74	63	71	72	69	66	68	
24	66	64	72	70	71	74	65	67	67	70	68	66	
25	65	67	57	69	70	75	69	75	70	70	64	70	
26	68	65	70	69	64	79	71	74	67	63	66	70	
27	67	63	68	67	69	71	72	72	69	71	66	66	
28	66	61	68	70	67	75	71	67	69	72	67	52	
29	70		69	70	70	71	68	67	72	68	68	65	
30	68		68	65	70	72	66	68	69	69	65	72	Annual Summary
31	66		68		70		70	67		64		54	
Avg	64.6	64.3	67.2	70.3	66.6	70.6	68.2	69.0	70.0	69.3	67.6	64.4	67.7
Min	57.1	59.1	56.7	65.4	56.2	65.0	27.1	60.3	62.2	62.2	52.7	51.5	27.1
Max	70.8	69.1	75.7	74.9	71.1	78.6	75.5	74.7	76.4	73.4	73.8	73.1	78.6

## Point Loma Influent 2009 Total Dissolved Solids (mg/L)





Point Loma Wastewater Treatment Plant

**2009 Total Dissolved Solids (mg/L)**

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	1740	1740	1620	1620	1760	1790	1950	2000	1800	1820	1700	1665	1740	1840	2100	2160	1990	2070	2040	2060	1630	1690	1850	1860	
2	1750	1740	1660	1690	1800	1800	1980	2045	1770	1770	1680	1730	1740	1660	2070	2100	1870	1870	1860	1880	1700	1680	1830	1860	
3	1650	1670	1740	1750	1830	1800	1850	1860	1730	1750	1690	1740	1680	1690	2110	2140	1980	1960	1650	1670	1790	1785	1930	1905	
4	1600	1680	1760	1780	1890	1880	1710	1790	1730	1680	1770	1830	1640	1660	2160	2260	1840	1860	1630	1670	1720	1740	1850	1890	
5	1700	1700	1770	1770	1850	1850	1720	1770	1820	1890	1830	1890	1700	1740	2140	2060	1820	1840	1720	1740	1700	1710	1840	1830	
6	1760	1770	1670	1670	1810	1840	1780	1780	1840	1820	1820	1805	1680	1650	1990	2040	1910	1900	1650	1670	1770	1790	1730	1770	
7	1790	1770	1450	1470	1790	1800	1800	1810	1820	1815	1750	1840	1710	1760	2040	2070	1840	1870	1600	1620	1730	1740	1430	1450	
8	1750	1800	1510	1500	1760	1755	1810	1820	1830	1850	1850	1910	1670	1690	2030	2080	2010	2070	1570	1600	1640	1640	1590	1555	
9	1790	1820	1490	1540	1790	1860	1780	1740	1810	1850	1900	1920	1750	1750	2010	2000	2390	2430	1700	1710	1680	1700	1720	1770	
10	1720	1790	1660	1620	1810	1840	1830	1850	1770	1780	1840	1860	1880	1900	2090	2070	2070	2100	1580	1630	1760	1790	1760	1770	
11	1930	2020	1710	1670	1880	1870	1760	1770	1810	1810	1960	1970	1660	1680	2530	2480	1970	2010	1530	1520	1660	1700	1770	1750	
12	1730	1740	1810	1750	1860	1870	1700	1705	1800	1785	1890	1900	1570	1620	2100	2160	1950	1980	1670	1660	1780	1780	1650	1670	
13	1800	1790	1760	1770	1770	1780	1760	1770	1840	1810	1850	1860	1620	1620	2050	2090	1920	2010	1760	1750	1790	1780	1500	1475	
14	1820	1800	1610	1630	1770	1760	1720	1720	1780	1760	1780	1810	1650	1680	2130	2120	2000	1990	1630	1635	1730	1740	1690	1670	
15	1800	1780	1620	1620	1890	1730	1580	1680	1860	1870	1820	1830	1730	1730	2120	2125	2100	2100	1710	1730	1650	1680	1680	1750	
16	1690	1680	1450	1475	1810	1870	1660	1690	1780	1810	1840	1815	1790	1750	2100	2170	2020	2080	1800	1820	1730	1750	1780	1830	
17	1660	1680	1540	1600	1880	1860	1670	1660	1770	1800	1880	1860	1750	1780	2240	2260	2110	2140	1760	1760	1800	1780	1770	1800	
18	1650	1710	1660	1660	1820	1800	1650	1650	1740	1760	1890	1900	1730	1760	2400	2360	2050	2090	1650	1660	1790	1785	1760	1780	
19	1810	1820	1730	1740	1820	1820	1680	1680	1770	1770	1850	1840	1710	1720	2400	2440	2060	2100	1770	1745	1790	1820	1850	1830	
20	1830	1780	1710	1800	1790	1820	1720	1720	1750	1750	1820	1870	1830	1840	2450	2405	1950	1970	1700	1740	1750	1770	1770	1760	
21	1890	1860	1670	1695	1710	1800	1740	1760	1820	1840	1860	1825	1980	1945	2350	2320	2030	2050	1720	1730	1680	1670	1760	1750	
22	1990	1955	1690	1730	1740	1750	1800	1770	1840	1875	1850	1840	2040	2040	2220	2270	1970	1980	1890	1870	1630	1670	1800	1840	
23	1750	1760	1680	1710	1770	1755	1720	1770	1860	1860	1870	1960	2040	2060	1840	1850	1940	2000	1750	1790	1660	1635	2080	2070	
24	1680	1690	1840	1840	1890	1900	1820	1810	1860	1890	1990	2000	2050	2070	1930	1960	2050	2035	1680	1715	1720	1730	1830	1790	
25	1980	1890	1770	1740	1850	1840	1820	1830	1810	1800	1810	1840	2130	2140	1910	1925	1930	1990	1530	1670	1790	1800	1910	1890	
26	1750	1750	1860	1820	1840	1850	1790	1790	1840	1850	1780	1865	2080	2100	1890	1930	2060	2060	1590	1580	1890	1960	1880	1870	
27	1780	1735	1830	1840	1890	1910	1770	1755	1750	1770	1770	1750	1990	2010	1960	1970	1980	2120	1610	1590	1840	1840	1870	1890	
28	1660	1680	1770	1820	1850	1850	1820	1820	1770	1800	1650	1670	2090	2040	1970	1970	1940	2010	1640	1660	1680	1720	1920	1865	
29	1860	1900			1900	1850	1850	1850	1830	1840	1720	1710	1990	2040	1940	1960	2180	2190	1730	1715	1670	1690	1930	1930	
30	1590	1580			1900	1880	1810	1810	1740	1770	1680	1760	2040	1990	1930	2005	2370	2340	1750	1700	1740	1750	1880	1910	
31	1660	1670			1960	1950			1640	1670			2090	2120	1990	1970			1620	1670			1950	1980	
Avg	1760	1766	1680	1690	1828	1830	1768	1783	1793	1804	1813	1836	1831	1841	2103	2120	2010	2041	1693	1708	1730	1744	1792	1799	
Min	1590	1580	1450	1470	1710	1730	1580	1650	1640	1670	1650	1665	1570	1620	1840	1850	1820	1840	1530	1520	1630	1635	1430	1450	
Max	1990	2020	1860	1840	1960	1950	1980	2045	1860	1890	1990	2000	2130	2140	2530	2480	2390	2430	2040	2060	1890	1960	2080	2070	
																							Summary		
																							Influent	Effluent	
																							1817	1830	
																							1620	1640	
																							2530	2480	

## **F. Toxicity Bioassays**

### **Toxicity Testing: Point Loma Wastewater Treatment Plant Effluent, 2009**

#### **INTRODUCTION**

The City of San Diego's Toxicology Laboratory (CSDTL) conducted aquatic toxicity tests (bioassays) as required by its NPDES Permit No. CA0107409, Order No. R9-2002-0025 for the Point Loma Wastewater Treatment Plant (PLWTP). The testing requirements are designed to determine the acute and chronic toxicity of effluent samples collected from the PLWTP. This chapter presents summaries and discussion of the toxicity tests conducted in 2009.

Toxicity testing of wastewater effluent measures the bioavailability of toxicants in a complex mixture, accounts for interactions among potential toxicants, and integrates the effects of all constituents. Acute and chronic bioassays are characterized by the duration of exposure of test organisms to a toxicant as well as the adverse effect (measured response) produced as the result of exposure to a toxicant.

Acute toxicity testing consists of a short-term exposure period, usually 96 hours or less, and the acute effect refers to mortality of the test organism. The City of San Diego is required to conduct acute toxicity tests of PLWTP effluent on a semiannual schedule.

Chronic toxicity testing, in the classic sense, refers to long-term exposure of the test organism to a potential toxicant. This may involve exposing the test organism for its entire reproductive life cycle, which may exceed 12 months for organisms such as fish. In general, chronic tests are inherently more sensitive to toxicants than acute tests in that adverse effects are detected at lower toxicant concentrations. The City of San Diego is required to conduct monthly critical/early life stage chronic tests of PLWTP effluent that are intermediate between the acute and chronic toxicity testing protocols discussed above. These test results serve as short-term estimates of chronic toxicity.

#### **MATERIALS & METHODS**

##### **Test Material**

Twenty-four hour, flow-weighted, composite effluent samples were collected at the PLWTP and stored at 4 °C until test initiation. All tests were initiated within 36 hours of sample collection. The acute toxicity test concentrations were 3.87, 7.75, 15.5, 31.0, and 62% (nominal). Unimpacted receiving water was used as dilution water in accordance with the NPDES permit. Receiving water was collected at City of San Diego monitoring station B8 and used within 96 hours of collection. The receiving water samples were collected from a depth of 2 m and stored at 4 °C until test initiation. The station coordinates are as follows:

Collection Location	Latitude/Longitude	Depth (m)
B-8	32° 45.50' N, 117° 20.77' W	88.4

Chronic toxicity test concentrations consisted of 0.15, 0.27, 0.49, 0.88, and 1.56% effluent. Dilution water for the chronic effluent tests was collected in the same manner as in the acute toxicity tests.

Dilution water for the acute and chronic reference toxicant tests was obtained from the Scripps Institution of Oceanography (SIO), filtered, held at 4 °C, and used within 96 hours of collection. Detailed methodology for all toxicity testing is described in the City of San Diego Toxicology Laboratory Quality Assurance Manual (City of San Diego 2008).

### **Acute Bioassays**

#### ***Mysid Survival Bioassay***

Acute bioassays using the mysid, *Mysidopsis bahia*, were conducted in March and September 2009 in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). Larval mysids (4-5 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and acclimated to test temperature and salinity for at least 24 hours. Upon test initiation, the mysids (10 per replicate) were exposed for 96 hours in a static-renewal system to the effluent exposure series. Receiving water and brine controls were also tested. The test solutions were renewed at 48 hours and the organisms were fed once daily.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320, and 560 µg/L copper. A SIO seawater control was also tested. At the end of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

### **Chronic Bioassays**

#### ***Kelp Germination and Growth Test***

Chronic bioassays using the giant kelp, *Macrocystis pyrifera*, were conducted each month during 2009 in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Kelp zoospores were obtained from the reproductive blades (sporophylls) of adult *Macrocystis* plants at the kelp beds near La Jolla, California one day prior to test initiation. The zoospores were exposed in a static system for 48 hours to the effluent exposure series. A receiving water control was also tested.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 5.6, 10, 18, 32, 56, 100, and 180 µg/L. A SIO seawater control was also tested. At the end of the exposure period, 100 zoospores from

each replicate were examined and the percent germination was recorded. In addition, germ-tube length was measured and recorded for 10 of the germinated zoospores.

The data were analyzed in accordance with “Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, germination data” and “Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, growth data” (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

### ***Red Abalone Development Bioassay***

Chronic bioassays using the red abalone, *Haliotis rufescens*, were conducted each month during 2009 in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Test organisms were purchased from Cultured Abalone (Goleta, California), and shipped via overnight delivery to the CSDTL. Mature male and female abalones were placed in gender-specific natural seawater tanks and held at 15 °C. For each test event, spawning was induced in 6-8 abalones in gender-specific vessels. Eggs and sperm were retained and examined under magnification to ensure good quality. Once deemed acceptable, the sperm stock was used to fertilize the eggs, and a specific quantity of fertilized embryos was added to each test replicate and exposed to the effluent series for 48 hours. A receiving water control was also tested. At the end of the test period, 100 embryos were examined and the number of normally and abnormally developed embryos was recorded.

Simultaneous reference toxicant testing was performed using reagent grade zinc sulfate. The concentrations of zinc in the exposure series were 10, 18, 32, 56, and 100 µg/L. A SIO seawater control was also tested.

The percentage of normally developed embryos for each replicate was arcsine square root transformed. The data were analyzed in accordance with “Flowchart for statistical analysis of red abalone *Haliotis rufescens*, development data” (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

## **RESULTS & DISCUSSION**

### **Acute Bioassays**

In 2009, all acute toxicity tests were conducted using mysids (*Mysidopsis bahia*). All tests met the acceptability criterion of >90% control survival and demonstrated compliance with permit standards (Table T.1).

### **Chronic Bioassays**

In 2009, the City conducted chronic toxicity tests using the giant kelp (*Macrocystis pyrifera*), which is the most sensitive species mandated by the compliance monitoring program. The results are summarized in Table T.2. All tests met the acceptability criteria and were within compliance limits.

The City also conducted chronic bioassays using the red abalone (*Haliotis rufescens*) on a voluntary basis due to the ecological significance of the species. The results are also presented in Table T.2. All red abalone tests met the acceptability criteria, and all were within compliance limits.

### **LITERATURE CITED**

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USEPA. (1993). Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms. Fourth Edition. C.I. Weber (ed). Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, OH. EPA/600/4-90/027F

USEPA. (1995). Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms. Chapman, G.A., D. L. Denton, and J.M. Lazorchak (eds). Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, OH. EPA/600/R-95/136

**TABLE T.1**

Results and compliance summary of acute bioassays conducted using PLWTP effluent during 2009. Data are presented in toxic unit acute (TUa) values. The 2001 California Ocean Plan compliance limit is 6.5 TUa.

Sample Date	Mysid 96-Hour Bioassay
03/15/2009	4.2
09/20/2009	1.9
N	2
No. in compliance	2
Mean TUa	3.1

**TABLE T.2**

Results of chronic toxicity testing of PLWTP effluent from January through December 2009. Data are presented in toxic unit chronic (TUc) values. NPDES permit limit is 205 TUc.

Sample Date	Giant Kelp		Red Abalone
	Germination	Growth	Development
01/06/2009	64	64	64
02/03/2009	64	64	-
02/10/2009	-	-	Not valid
03/03/2009	64	64	64
04/14/2009	n.v.	n.v.	64
04/22/2009	64	64	-
05/12/2009	64	64	64
06/09/2009	n.v.	n.v.	-
06/14/2009	-	-	64
06/25/2009	64	64	-
07/07/2009	64	64	64
08/04/2009	64	64	64
09/14/2009	114	64	64
10/20/2009	-	-	64
10/25/2009	114	64	-
11/03/2009	64	64	-
11/17/2009	-	-	64
12/08/2009	-	-	64
12/14/2009	64	64	-
N	12	12	11
No. in compliance	12	12	11
Mean TUc	72	64	64

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## G. 6-Year Tables

ARSENIC (ug/L) 2004

Week	Inf	JAN	Inf	FEB	Inf	MAR	Inf	APR	Inf	MAY	Inf	JUN	Inf	JUL	Inf	AUG	Inf	SEP	Inf	OCT	Inf	NOV	Inf	DEC
		Eff		Eff		Eff		Eff		Eff		Eff		Eff		Eff		Eff		Eff		Eff		Eff
1	1.05	0.84			1.42	0.84	1.45	1.38	1.93	2.36	1.09	1.11	1.4	1.04	0.83	<0.40	2.24	1.06	1.32	0.86	1.56	0.91	2.18	1.25
2	2.13	1.32	1.2	0.68	2.15	1.44	1.07	0.51	1.1	1.45	1.9	1.28	0.99	0.63	0.62	NA	1.7	1.42	1.31	1.27	1.09	0.68	1.59	1.28
3	2.05	1.88	0.77	ND	2.16	1.89	1.83	1.32	1.41	0.88	1.84	1.2		1.75	1.38	1.02	0.69	2.73	1.76	1.36	0.99	1.71	1.57	
4	2.3	1.7	2.57	1.29	0.99	0.46	1.49	0.9	1.25	1.37	2.06	1.22	1.26	0.89	1.64	1.24	1.29	1.17	3.68	1.82	0.96	0.72	1.92	0.88
Avg	1.88	1.44	1.51	0.66	1.68	1.16	1.46	1.03	1.42	1.52	1.72	1.2	1.22	0.85	1.21	0.87	1.56	1.09	2.26	1.43	1.24	0.83	1.85	1.25

ARSENIC (ug/L) 2005

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			1.35	2.31	3.93	1.38	2.13	1.49				1.94	1.14	1.28	0.71	2.13	1.6	1.1	0.51	1.68	0.53		1.71	1.13
2	3.22	1.88	1.53	0.67	1.78	1.26	2.1	1.37	2.79	1.79	1.04	0.68	1.29	0.74	1.03	0.64	1.66	1.33	1.09	0.5	3.41	1.83	1.07	0.47
3	1.58	0.89	1.88	0.94	1.32	0.87	2.12	0.99	1.06	0.49	1.63	1.36	1.75	1.61	1.06	0.53	1.82	1.25	1.87	1.26	2.56	2.07	0.87	ND
4	1.23	1.04	2.85	1.46	1.96	1.83	1.26	0.66	1.89	1.66	1.11	0.45	1.99	1.82	0.97	0.74	2.89	2.38	1.13	0.66	1.22	0.83	1	0.43
Avg	2.01	1.27	1.9	1.35	2.25	1.34	1.9	1.13	1.91	1.31	1.43	0.91	1.58	1.22	1.3	0.88	1.87	1.37	1.44	0.74	2.4	1.58	1.15	0.51

ARSENIC (ug/L) 2006

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.61	0.70	1.08	0.66	1.22	0.45	0.95	0.46	1.24	ND	1.07	ND	0.73	0.67	1.17	0.76	1.04	0.56	1.08	0.49	1.44	0.77	0.85	<.40
2	1.13	0.63	1.00	0.65	1.03	0.4	1.67	0.61	0.82	0.44	0.91	0.46	1.23	0.59	0.84	0.56	1.10	0.51	1.07	0.50	1.23	0.65	0.87	ND
3	1.12	0.53	1.15	0.55	0.61	ND	1.17	0.6	0.83	0.5	0.91	0.57	0.99	0.65	0.95	0.77	1.00	0.51	1.34	<0.40	1.13	0.72	0.89	0.41
4	1.12	0.57	1.91	0.88			0.84	0.69	1.12	0.59	0.82	0.5	0.76	0.62	0.96	0.63			1.22	0.65	1.18	0.62	0.91	0.43
Avg	1.25	0.61	1.29	0.69	0.95	0.28	1.16	0.59	1.00	0.51	0.93	0.38	0.93	0.63	0.98	0.68	1.05	0.53	1.18	0.41	1.25	0.69	0.88	0.21

ARSENIC (ug/L) 2007

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.21	0.51	0.89	ND	1.32	0.70	1.18	0.73	0.92	0.55	1.39	0.95	1.09	0.69	1.00	ND	1.44	0.89	1.51	0.73	0.90	0.58		
2	1.15	0.68	0.83	0.48	1.03	0.73	1.12	0.71	1.15	1.20	1.03	0.81	0.93	0.74	1.23	0.6	1.00	0.57	1.16	0.67	0.96	0.55	1.29	0.86
3	0.72	0.56	1.34	0.78	1.18	0.66	0.92	0.68	1.28	1.00	1.18	0.86	0.95	0.67	1.25	ND	1.05	0.53	1.10	0.79	0.81	0.56	1.00	0.73
4	1.58	0.52			1.25	0.7	1.08	0.71	1.35	0.96			1.14	0.67	1.30	ND	1.28	0.72	0.93	0.64	1.26	0.71	1.23	0.66
Avg	1.17	0.57	1.02	0.63	1.20	0.70	1.08	0.71	1.18	0.93	1.20	0.87	1.03	0.69	1.20	0.20	1.19	0.68	1.18	0.71	0.98	0.60	1.17	0.75

ARSENIC (ug/L) 2008

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	0.97	0.71	1.13	0.50	1.28	0.48	0.93	0.58			1.36	0.90	0.90	0.72	1.06	0.75	1.29	0.86	1.19	0.87			1.22	0.81
2	1.63	0.64	1.89	0.58	1.01	0.45	1.14	0.88	1.28	0.98	1.13	0.71	1.23	0.71	1.27	0.82	0.97	0.71	1.30	0.66	0.87	0.79	1.10	0.72
3	0.91	0.50	1.23	0.58	1.07	0.43	1.27	0.69	1.39	0.95	1.06	0.91	1.19	0.73	1.16	0.96	1.03	0.84	1.24	0.73	1.01	0.72	2.85	1.55
4	1.21	0.55	1.38	0.79	0.82	0.69	1.30	0.86	1.34	0.95	1.03	0.54	1.19	0.77	1.34	0.91	1.15	0.84	1.20	0.83	1.05	0.68	1.48	1.07
Avg	1.18	0.60	1.41	0.61	1.05	0.51	1.16	0.75	1.34	0.96	1.15	0.77	1.13	0.73	1.21	0.86	1.11	0.81	1.23	0.77	0.98	0.73	1.66	1.04

ARSENIC (ug/L) 2009

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.16	0.86	1.04	0.58			1.18	0.66	1.02	0.66	0.54	0.76	1.08	0.59	1.78	1.22			1.58	0.78	0.97	0.68	1.15	0.81
2	0.75	0.65	1.35	0.89	0.97	0.42	1.34	0.56	1.02	1.02	1.21	0.78	1.13	0.68	1.70	1.07	1.52	1.09	0.91	0.75	0.83	0.70	1.28	0.83
3	1.08	0.65	1.24	0.88	1.02	<0.40	1.22	0.89	1.40	0.88	1.23	0.88	1.15	0.78	1.32	1.12	1.56	1.12	1.15	0.81	1.10	0.84	1.04	0.59
4	1	0.66	1.14	0.88	1.09	0.70	1.00	0.66	1.42	0.79	0.84	0.59	1.01	0.79	1.47	1.09	1.45	1.08	1.11	0.87	1.10	0.89	1.04	0.61
Avg	0.9975	0.71	1.19	0.81	1.03	0.37	1.19	0.69	1.22	0.84	0.96	0.75	1.09	0.71	1.57	1.13	1.51	1.10	1.19	0.80	1.00	0.78	1.13	0.71

CADMIUM (ug/L) 2004																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	10.4	ND			ND	ND	5.5	ND	ND	ND	5.8	2	16.4	2.7	7.5	4.3	5.6	2	5.7	1.4	6.5	0.9	5.6	2.1
2	ND	ND	7.1	ND	7.2	ND	13.8	ND	19.1	ND	12	1.7	7.9	1.9	17.5	20.6	4.5	4.3	9.2	2.5	6.1	1.8	7.8	1.7
3	ND	ND	10.3	ND	6.3	ND	16.5	ND	ND	ND	10	1.4		6.4	17.1	5.6	1.6	14.4	4.5	6.1	1.7	6	1.6	
4	8.4	ND	6.2	<5.0	ND	ND	ND	ND	ND	11.7	5.5	1.5	6.1	6.1	22.2	2.6	4.5	1.7	5.5	1.8	4.9	1.6	4.5	1
Avg	4.6	ND	7.9	0	3.4	ND	8.9	ND	4.8	2.9	8.3	1.7	10.1	3.6	13.4	11.2	5.1	2.4	8.7	2.6	5.9	1.5	6	1.6

CADMIUM (ug/L) 2005																								
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1			0.3	ND	0.2	0.5	ND	ND			1	0.6	0.3	ND	0.7	0.4	ND	ND	0.6	ND		ND	ND	ND
2	0.3	0.2	ND	0.5	0.3	ND	ND	ND	0.4	ND	0.6	0.8	0.4	ND	0.4	<0.2	0.6	ND	0.3	ND	ND	ND	ND	ND
3	ND	0.4	1.3	ND	0.5	0.2	ND	ND	0.3	ND	1.1	0.6	0.3	ND	0.4	ND	0.4	ND	0.3	ND	0.6	ND	ND	ND
4	ND	ND	0.9	0.69	0.5	0.4	ND	ND	0.5	0.2	0.7	0.5	0.3	ND	0.3	ND	0.5	ND	ND	ND	0.7	0.6	ND	ND
Average	0.1	0.2	0.6	0.4	0.4	0.3	ND	ND	0.4	0.1	0.9	0.6	0.3	ND	0.5	0.1	0.4	ND	0.3	ND	0.4	0.2	ND	ND

CADMIUM (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	0.2	ND	0.6	0.4	ND	ND	0.2	ND	0.5	ND	0.3	ND	0.3	0.3	0.7	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	0.2	<0.2	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	0.4	0.2	ND	ND	0.2	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.5	0.3	0.3	ND	0.4	ND	ND	ND	ND	ND	ND	ND
4	0.5	ND	ND	ND	ND	ND	0.2	ND	0.45	ND	0.3	ND	ND	0.2	0.2	ND	ND	0.9	0.3	ND	ND	ND	ND	ND
Average	0.1	ND	ND	ND	0.1	0	0.2	0.1	0.11	ND	ND	ND	0.4	0.1	0.2	ND	0.4	0.2	0.4	0.1	0.1	ND	ND	ND

CADMIUM (ug/L) 2007																								
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	1.4	1.3	0.6	ND	ND	<0.5	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	38.3	ND	ND	ND	ND	ND	2.6	1.7	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	0.6	ND	0.7	<0.5	ND	ND	0.7	ND	ND	ND	0.7	ND	ND	ND	ND	ND	0.6	0.6	ND	ND	ND	ND	ND	ND
4	0.7	ND			ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	0.3	ND	0.2	<0.0	9.6	ND	0.2	ND	ND	ND	1.8	1.0	0.3	0.2	0.2	ND	<0.2	0.2	ND	ND	ND	ND	ND	ND

CADMIUM (ug/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

CADMIUM (ug/L) 2009																									
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	<0.5	ND	ND	
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	0.2	ND	ND	0.0	ND	ND

CHROMIUM (ug/L) 2004																								
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	10.4	ND			ND	ND	5.5	ND	ND	ND	5.8	2	16.4	2.7	7.5	4.3	5.6	2	5.7	1.4	6.5	0.9	5.6	2.1
2	ND	ND	7.1	ND	7.2	ND	13.8	ND	19.1	ND	12	1.7	7.9	1.9	17.5	20.6	4.5	4.3	9.2	2.5	6.1	1.8	7.8	1.7
3	ND	ND	10.3	ND	6.3	ND	16.5	ND	ND	ND	10	1.4			6.4	17.1	5.6	1.6	14.4	4.5	6.1	1.7	6	1.6
4	8.4	ND	6.2	<5.0	ND	ND	ND	ND	ND	11.7	5.5	1.5	6.1	6.1	22.2	2.6	4.5	1.7	5.5	1.8	4.9	1.6	4.5	1
Avg	4.6	ND	7.9	0	3.4	ND	8.9	ND	4.8	2.9	8.3	1.7	10.1	3.6	13.4	11.2	5.1	2.4	8.7	2.6	5.9	1.5	6	1.6

CHROMIUM (ug/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			5.1	2.3	3.5	2.2	5.2	23.4			5.2	4	4.7	0.9	4.5	2.1	5.2	23	4.1	ND			3.5	1.2
2	4.7	1.8	7.6	2.1	3.6	2.6	7	1.3	5.8	2.2	5.4	5.6	3.9	1.2	4.5	1.2	8.6	1.6	4.8	0.2	11.6	1.9	3.9	ND
3	3.2	0.2	6.5	1.2	4.4	1	5.1	2.9	3.7	1.7	5.6	5.6	2.6	1.9	5.4	1.1	3.4	1.3	4.5	ND	4.8	5.6	2.9	0.3
4	4.5	1.3	3.6	2.9	4.7	1.9	5.1	2.1	7.2	6.8	6.6	3.9	5.3	2.1	3.4	0.4	4.2	1.1	4	ND	3.4	1.3	5.1	0.6
Average	4.1	1.1	5.7	2.1	4.1	1.9	5.6	7.4	5.6	3.6	5.7	4.8	4.1	1.5	4.5	1.2	5.4	1.6	4.4	0.1	6.6	2.9	3.9	0.5

CHROMIUM (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	27.3	3.8	4.4	1.1	4.5	1.2	3.9	0.6	7.3	0.2	4.7	1.6	4.2	1.2	5.5	1.9	9.7	6.2	9.6	0.4	10.3	1.2	7.3	ND
2	4.6	1.3	4.2	1.4	4	0.4	181.0	0.7	6.3	0.7	10.6	1.6	13.1	1.1	5.9	2.0	11.5	3.1	8.6	7.6	13.1	2.1	4	ND
3	8.7	1.2	4.5	3.4	2.2	0.6	4.2	1.1	4.7	1.6	6.2	0.8	5.3	2.1	14.7	3.6	9	3.4	6.8	1.1	5.4	1.8	6.2	ND
4	5.7	2.6	4.3	2.0			6.1	2.2	10.8	1.5	10.9	4	7.9	0.9	7.3	1.5			16	2.3	6.6	2.9	5.4	ND
Average	11.6	2.2	4.4	2.0	3.6	0.7	48.8	1.2	7.3	1.0	8.1	2.0	7.6	1.3	8.4	2.3	10.1	4.2	10.3	2.9	8.9	2.0	5.7	ND

CHROMIUM (ug/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	8	ND	6.0	3.0	6.6	ND	12.5	2.1	6.6	ND	10.9	ND	6.6	ND	5.0	1.4	7.2	16.5	6.6	ND	7.3	1.4		
2	7.4	ND	4.2	1.8	5.8	1.8	7.7	<1.2	5.1	ND	7.3	ND	11.2	ND	5.7	ND	7.2	ND	10.6	2.2	11.6	1.5	12.6	1.9
3	7.7	ND	7.1	2.1	10.3	2.1	9.0	1.2	6.8	2.0	5.8	ND	9.4	ND	13.5	1.5	7.6	ND	5.2	1.3	4.7	ND	8.1	2.4
4	10.9	ND			9.6	1.9	7.9	1.5	7.5	ND			7.5	ND	8.1	2.7	9.1	ND	5.7	ND	8.6	1.7	7.2	3.0
Average	8.5	ND	5.8	2.3	8.1	1.5	9.3	1.6	6.5	0.5	8.0	ND	8.7	ND	8.1	1.4	7.8	4.1	7.0	0.9	8.1	1.2	9.3	2.4

CHROMIUM (ug/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	5.6	ND	16.7	3.2	11.7	3.5	3.9	ND			2.9	ND	10.0	1.3	6.8	2.4	8.1	1.7	8.0	ND			4.9	ND
2	6	ND	18.8	1.8	7.7	1.8	7.1	ND	10.3	ND	4.3	ND	6.1	ND	5.2	<1.2	5.5	1.5	5.5	<1.2	8.5	2.3	6.3	ND
3	5.9	ND	4.7	1.7	6.3	2.0	9.3	ND	12.1	2.4	4.9	2.4	6.4	ND	8.8	2.1	4.2	1.4	3.2	1.4	5.0	1.5	4.5	1.2
4	14.8	ND	4.4	1.6	7.6	ND	3.2	ND	3.9	ND	13.7	3.2	4.7	ND	6.9	1.3	8.9	2.0	44.4	6.5	7.6	3.0	3.4	1.3
Average	8.1	ND	11.2	2.1	8.3	1.8	5.9	ND	8.8	0.8	6.5	1.4	6.8	0.3	6.9	1.5	6.7	1.7	15.3	2.0	7.0	2.3	4.8	0.6

CHROMIUM (ug/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	2.8	1.4	14.3	2.7			6.4	2.0	4.3	2.7	9.3	2.0	5.0	1.3	5.3	<1.2			13.1	1.5	7.5	1.9	8.8	2.0
2	3.7	ND	6.6	1.8	4.3	2.2	10.5	2.2	7.4	6.8	5.8	1.5	7.1	1.4	5.8	2.3	7.7	1.6	5.2	1.6	3.0	2.8	2.7	1.8
3	3.5	ND	6.7	3.4	5.6	2.0	9.5	1.9	12.2	4.0	5.1	2.9	8.1	1.7	5.1	1.5	7.2	1.7	4.8	1.3	4.3	1.4	5.5	1.4
4	19.5	2.3	5.4	2.7	6.1	1.7	5.7	1.3	9.5	1.5	5.5	ND	6.3	ND	5.7	2.2	6.3	ND	6.9	3.1	14.3	2.2	6.5	1.6
Average	7.4	0.9	8.3	2.7	5.3	2.0	8.0	1.9	8.4	3.8	6.4	1.6	6.6	1.1	5.5	1.5	7.1	1.1	7.5	1.9	7.3	2.1	5.9	1.7

		COPPER (ug/L) 2004																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	144	49			121	40	158	47	107	86	95	54	105	56	93	29	100	43	113	22	116	51	115	27	
2	127	61	202	118	140	47	169	44	169	91	125	65	97	28	145	52	124	25	90	30	106	30	123	21	
3	118	61	181	24	134	110	133	48	124	17	103	47			127	31	74	29	100	26	99	23	146	22	
4	131	29	91	51	231	82	134	38	82	19	116	32	83	29	144	34	77	28	73	24	103	20	82	23	
Avg	130	50	158	64	157	70	149	44	121	53	110	50	95	38	127	37	94	31	94	26	106	31	117	23	

COPPER (ug/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			83	72	62	23	98	27			108	50	97	22	112	23	96	30	142	18			71	27
2	74	39	98	37	85	30	134	27	95	28	106	25	119	17	97	20	118	16	94	14	173	25	62	34
3	73	25	122	30	69	22	120	44	82	25	118	31	68	34	102	19	89	13	61	31	132	32	62	22
4	85	36	67	28	82	22	92	28	114	34	111	25	204	33	97	22	105	19	115	25	92	24	49	22
Average	77	33	93	42	75	24	111	32	97	29	111	33	122	27	101	21	102	20	103	22	133	27	61	26

COPPER (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	115	28	49	20	66	19	64	22	169	19	104	26	117	24	95	18	108	17	112	14	109	15	84	ND
2	83	22	86	30	62	18	82	24	123	17	114	27	205	18	97	22	106	13	143	42	76	39	76	ND
3	72	19	47	20	60	11	71	23	104	19	89	20	101	26	100	24	73	29	57	8	67	12	79	ND
4	92	20	51	17			115	42	101	28	105	28	71	23	106	15			123	14	77	19	62	ND
Average	91	22	58	22	63	16	83	28	124	21	103	25	124	23	100	20	96	20	109	20	82	21	75.3	ND

COPPER (ug/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	92	15	52	26	79	14	104	15	79	9	139	15	106	14	96	48	85	18	117	18	90	11		
2	80	14	32	16	87	16	93	15	89	8	100	12	118	33	112	10	96	16	97	14	94	18	75	11
3	60	15	47	13	94	14	92	12	97	9	102	11	135	27	84	51	120	10	76	7	68	21	87	12
4	99	14			99	10	99	17	91	9			112	65	102	11	117	8	93	6	91	11	79	17
Average	83	15	44	18	90	14	97	15	89	9	114	13	118	35	99	30	105	13	96	11	86	15	80	13

		COPPER (ug/L) 2008																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	60	11	66	17	88	20	75	22			73	22	111	15	113	20	70	20	91	19			130	25	
2	100	14	153	16	93	23	93	21	86	22	100	24	102	15	106	14	97	21	105	17	91	18	111	22	
3	84	10	76	15	84	21	98	18	77	18	117	35	109	14	131	16	89	22	48	17	88	19	81	24	
4	71	8	63	18	77	15	91	17	70	21	121	17	103	22	125	16	110	78	106	23	106	22	78	20	
Average	79	11	90	17	86	20	89	20	78	20	103	25	106	17	119	17	92	35	88	19	95	20	100	23	

COPPER (ug/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	64	28	138	34			104	17	118	25	127	22	120	22	134	22			253.0	13.3	107.0	15.4	110	15.6
2	85	21	106	26	103	37	105	13	125	23	103	15	110	22	117	21	99	17	90.2	16.4	52.0	16.9	40.6	18.6
3	95	21	103	37	98	34	107	14	135	15	107	22	143	20	45	13	108	20	113.0	16.4	69.5	14.3	105	16.4
4	107	20	97	38	108	19	113	13	127	13	124	10	110	20	107	20	107	15	91.7	25.7	105.0	11.3	105	16.2
Average	88	23	111	34	103	30	107	14	126	19	115	17	121	21	101	19	105	17	137.0	18	83.4	14.5	90.2	16.7

LEAD (ug/L) 2004																								
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	25	ND			ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND	3.2	ND	4.5	ND	4	ND	4.2	<1.4	2.8	ND
2	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	3.6	ND	4.7	ND	4.9	ND	2	ND	5.2	1.9	2.3	ND	ND	ND
3	ND	<18.0	ND	ND	ND	ND	ND	ND	ND	ND	5	1.9		5.4	ND	2.3	ND	8.7	2	3	ND	3.3	ND	
4	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	6	ND	2.8	ND	6.3	ND	ND	ND	4.1	ND	2.9	ND	2	ND
Avg	6.3	0	ND	7.7	ND	ND	ND	4.5	ND	ND	3.7	0.5	4.5	ND	5	ND	3	ND	5.5	1.95	3.1	0	2	ND

LEAD (ug/L) 2005																									
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1			1.5	ND	ND	ND	ND	ND	ND	ND	2.1	<1.4	5	ND	3.5	ND	1.8	ND	4.7	ND			ND	ND	
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3	ND	3.3	ND	3.4	ND	1.6	ND	4	ND	2.6	ND	2.3	ND	3.1	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.4	2.9	ND	2.5	ND	2.8	ND	1.6	ND	3.9	ND	ND	ND	3.4	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	3.3	ND	2.4	ND	ND	ND	6.1	ND	3.5	ND	5	ND	ND	ND
Average	ND	ND	0.4	ND	ND	ND	ND	ND	0	4	ND	2.8	0	3.4	ND	1.7	ND	4	ND	2.7	ND	3.6	ND	0.8	ND

LEAD (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	3.6	2.6	2.5	ND	2.3	ND	3.1	ND	6	ND	2.3	ND	2.2	ND	5.8	0	4.9	ND	3.7	ND	4.9	ND	2.8	ND
2	3.5	ND	2.7	ND	3.5	ND	7.5	1.9	4.2	1.9	3.2	1.8	11.7	1.8	5.7	1.5	5.7	ND	2.2	ND	3.2	ND	ND	ND
3	1.7	ND	3.4	2.1	ND	ND	5.1	ND	4.3	ND	4.9	ND	10.9	5.3	5.8	3	3.7	ND	ND	ND	1.9	ND	2.4	ND
4	3.1	2.3	3.4	ND			5.8	ND	3.8	ND	5.1	ND	4.1	ND	4.4	1.7		ND	ND	ND	2.7	ND	ND	ND
Average	3.0	1.2	3.0	0.5	1.9	ND	5.4	0.5	4.6	0.5	3.9	0.5	7.2	1.8	5.4	1.6	4.8	ND	1.5	ND	3.2	ND	1.3	ND

LEAD (ug/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	4.6	ND	ND	ND	6.6	ND	3.1	ND	ND	ND	2.9	ND	ND	ND	3.7	ND	ND	ND	3.8	ND	2.9	ND		
2	ND	ND	ND	ND	5.8	ND	ND	ND	2.2	ND	ND	ND	6.7	ND	ND	ND	ND	ND	2.7	ND	2.1	ND	ND	ND
3	ND	ND	ND	ND	5.3	ND	4.2	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND
4	5.6	ND			3.9	ND	2.5	ND	ND	ND			ND	ND	2.2	ND	2.5	ND	ND	ND	5.4	ND	ND	ND
Average	2.6	ND	ND	ND	5.4	ND	2.5	ND	2.2	ND	1	ND	2.4	ND	1.5	ND	2.5	ND	1.5	ND	3.2	ND	ND	ND

LEAD (ug/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	2.4	ND	3.4	ND			4.8	ND
2	2.9	ND	5.3	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	2.9	ND	ND	ND	4	ND	3.3	ND	4.2	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	3.3	ND	ND	ND	2.5	ND	3	<2.0	3.6	ND
4	2.5	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	3.3	ND	ND	ND	3	ND	4.9	ND	3.3	ND
Average	3	ND	1.3	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	2.98	ND	0.6	ND	3.23	ND	3.7	0	4.0	ND

LEAD (ug/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	5.3	ND			2.9	ND	3.1	ND	3.3	ND	3.3	ND	3.4	ND			7.9	ND	3.0	ND	2.7	ND
2	ND	ND	3.2	ND	ND	ND	3.8	ND	2.9	ND	3.6	ND	3.8	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	2.6	ND	2.4	ND	ND	ND	2.2	ND	3.9	ND	3.2	ND	4.7	ND	0	ND	ND	ND	2.9	ND	ND	ND	2.3	ND
4	2.7	ND	2.2	ND	2.9	ND	2.5	ND	3.8	ND	5.2	ND	2.6	ND	4.3	ND	ND	ND	2	ND	2.7	ND	2.7	ND
Average	1.3	ND	3.3	ND	1	ND	2.9	ND	3.4	ND	3.8	ND	3.6	ND	3.1	ND	ND	ND	3.20	ND	1.4	ND	1.9	ND

NICKEL (ug/L) 2004																									
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	21	ND			ND	ND	ND	ND	ND	ND	9	9	14	10	11	8	12	8	14	10	15	12	9	6	
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	8	13	8	21	22	14	9	12	8	11	8	10	7	
3	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	15	7		14	17	11	9	17	10	10	7	11	6	
4	19	22	ND	<14	ND	ND	ND	17	ND	ND	ND	9	8	12	10	20	10	10	7	13	9	8	6	8	6
Avg	10	6	ND	0	ND	ND	ND	8	ND	ND	ND	12	8	13	9	17	14	12	8	14	9	11	8	10	6

NICKEL (ug/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			12	10	6	6	8	18			12	13	8	8	10	9	8	7	9	7		11	12	
2	9	9	5	11	7	8	9	4	10	7	10	21	9	5	8	7	28	11	11	6	16	7	13	7
3	8	7	16	4	8	7	8	8	8	7	12	18	8	7	9	7	9	7	8	6	10	11	10	8
4	9	8	11	11	13	8	7	7	10	12	14	11	10	8	6	7	8	7	12	7	9	8	15	9
Average	9	8	11	9	9	7	8	9	9	9	12	16	9	7	8	8	13	8	10	7	12	9	12	9

NICKEL (ug/L) 2006																								
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	19	7	9	8	8	7	8	7	10	8	18	12	15	11	9	7	24	14	19	10	17	12	11	10
2	11	8	8	7	9	7	13	5	13	6	14	8	20	10	12	8	19	12	16	10	16	10	8	9
3	12	7	9	7	8	6	9	6	10	8	21	13	12	9	25	13	9	7	22	17	9	10	14	11
4	10	7	8	7			14	13	9	7	13	8	19	10	13	9			28	17	10	10	13	18
Average	13	7	9	7	8	7	11	8	11	7	17	10	17	10	15	9	17	11	21	14	13	10.5	12	12

NICKEL (ug/L) 2007																									
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	10	6	23	17	8	7	16	10	11	7	11	7	10	6	10	9	17	14	13	7	14	8			
2	17	11	9	10	10	8	12	9	9	6	12	7	11	6	15	8	12	7	12	9	13	8	21	13	
3	15	11	11	9	15	11	17	10	10	6	9	6	16	7	16	11	11	5	8	6	8	6	17	10	
4	16	9			34	19	11	7	10	6			14	8	11	9	18	9	11	7	11	7	12	7	
Average	15	9	14	12	17	11	14	9	10	6	11	7	13	7	13	9	15	9	11	7	12	7	17	10	

NICKEL (ug/L) 2008																									
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	11	8	32	23	25	12	10	7			9	7	18	12	12	7	18	10	13	9			10	5	
2	11	8	23	11	12	9	9	5	21	19	9	6	13	9	10	7	11	7	9	7	10	7	11	6	
3	12	8	7	6	14	7	12	7	12	8	11	7	12	8	17	10	16	11	9	8	7	5	8	5	
4	20	14	8	6	10	7	8	5	11	8	31	17	8	6	11	7	22	11	31	18	14	9	7	5	
Average	14	10	18	12	15	9	10	6	15	12	15	9	13	9	13	8	17	10	16	11	10	7	9	5	

NICKEL (ug/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	6	5	24	15			9	7	8	6	15	9	12	7	9	7			25.1	6.6	8.6	6.7	12.5	5.8
2	7	5	9	7	7	6	16	10	14	15	11	8	10	6	8	5	15	10	9.0	6.6	5.5	7.1	6.7	6.6
3	6	4	14	10	8	6	10	6	13	8	7	6	11	6	9	6	13	8	8.9	5.3	7.7	5.1	9.9	5.4
4	30	16	10	9	8	6	8	5	15	9	7	5	11	6	9	6	13	7	13.0	8.3	27.6	10.4	8.1	5
Average	12	8	14	10	8	6	11	7	13	10	10	7	11	6	9	6	14	8	14.0	6.7	12.4	7.3	9.3	5.7

MERCURY (ug/L) 2004																								
		JAN	FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND			0.38	ND	0.75	ND	0.23	ND	0.11	ND	0.22	ND	ND	ND	0.11	ND	0.32	ND	0.41	ND	0.1	ND
2	0.26	ND	0.11	ND	0.77	ND	0.19	ND	0.13	ND	0.17	ND	0.26	ND	0.19	ND	0.19	ND	0.14	ND	0.34	ND	0.16	ND
3	0.54	ND	ND	ND	0.2	ND	0.11	ND	ND	ND	0.23	ND	ND	ND	0.24	ND	0.14	ND	0.16	ND	ND	ND	0.15	ND
4	0.24	ND	0.39	ND	0.18	ND	0.21	ND	0.11	ND	0.13	ND	0.19	ND	0.22	ND	ND	ND	0.15	ND	0.21	ND	ND	ND
Avg	0.26	ND	0.17	ND	0.38	ND	0.32	ND	0.12	ND	0.16	ND	0.22	ND	0.16	ND	0.11	ND	0.19	ND	0.24	ND	0.1	ND

MERCURY (ug/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			0.62	ND	ND	ND	0.16	ND			0.3	ND	0.11	ND	0.12	ND	ND	ND	1.03	ND			0.15	ND
2	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	0.1	ND	0.22	ND	0.23	<0.09	0.23	ND	0.1	ND
3	ND	ND	0.27	ND	0.11	ND	0.19	ND	0.1	ND	0.25	ND	ND	ND	0.16	ND	ND	ND	0.39	ND	0.11	ND	0.3	ND
4	ND	ND	0.1	ND	ND	ND	ND	ND	0.71	ND	0.13	ND	0.89	ND	ND	ND	0.15	ND	0.21	ND	ND	ND	ND	ND
Average	ND	ND	0.28	ND	0.03	ND	0.09	ND	0.27	ND	0.2	ND	0.25	ND	0.1	ND	0.09	ND	0.47	0	0.11	ND	0.14	ND

MERCURY (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	0.87	ND	ND	ND	ND	ND	0.1	ND	0.27	ND	ND	ND	ND	ND	0.1	ND	0.59	ND	ND	ND	0.18	ND	0.44	ND
2	0.14	ND	ND	ND	0.37	ND	0.11	ND	ND	ND	ND	ND	0.55	ND	0.13	<0.09	ND	ND	0.66	ND	0.22	ND	ND	ND
3	0.19	ND	0.35	ND	ND	ND	0.16	ND	0.23	ND	ND	ND	ND	ND	0.28	ND	ND	ND	0.15	ND	ND	ND	1.11	ND
4	ND	ND	0.11	ND	ND	ND	0.12	ND	0.36	0.14	0.1	ND	0.12	ND	0.18	ND	0.09	ND	0.25	ND	0.18	ND	ND	ND
Average	0.3	ND	0.12	ND	0.12	ND	0.12	ND	0.22	0.04	0.03	ND	0.16	ND	0.17	0	0.2	ND	0.30	ND	0.16	ND	0.43	ND

MERCURY (ug/L) 2007																								
		JAN	FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	0.13	ND	0.10	ND	0.27	ND	ND	ND	0.17	ND	0.11	ND	ND	ND	0.6	ND	0.12	ND		
2	ND	ND	ND	ND	ND	ND	0.10	ND	0.12	ND	ND	ND	0.32	ND	0.22	ND	0.20	ND	0.22	ND	0.11	ND	ND	ND
3	ND	ND	0.12	ND	0.1	ND	0.10	ND	0.17	ND	ND	ND	0.1	ND	ND	ND	0.26	ND	0.13	ND	ND	ND	ND	ND
4	ND	ND			0.16	ND	0.13	ND	ND	ND			0.24	ND	1.9	ND	0.20	ND	0.2	ND	ND	ND	ND	ND
Average	ND	ND	0.04	ND	0.1	ND	0.11	ND	0.14	ND	ND	ND	0.21	ND	0.13	ND	0.17	ND	0.29	ND	0.06	ND	ND	ND

MERCURY (ug/L) 2008																									
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	ND	ND	0.14	ND	ND	ND	0.10	ND			0.24	ND	0.31	ND	0.13	ND	0.13	ND	0.12	ND			ND	ND	
2	0.11	ND	0.26	ND	ND	ND	0.14	ND	0.11	ND	ND	ND	0.14	ND	0.19	ND	0.21	ND	0.13	ND	ND	ND	ND	0.1	ND
3	0.16	ND	0.25	ND	0.12	ND	0.19	ND	0.14	ND	0.16	ND	0.3	ND	0.25	ND	0.13	ND	0.56	ND	0.12	ND	ND	ND	ND
4	0.21	ND	ND	ND	0.11	<0.09	0.79	ND	ND	ND	0.3	ND	0.25	0.13	0.12	ND	0.28	ND	0.17	ND	ND	ND	ND	ND	ND
Average	0.12	ND	0.16	ND	0.06	0	0.3	ND	0.08	ND	0.18	ND	0.25	0.03	0.17	ND	0.19	ND	0.25	ND	0.04	ND	0.03	ND	ND

MERCURY (ug/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	0.15	ND	0.21	ND	0.19	ND	0.13	ND	0.38	ND			0.21	ND	0.26	ND	0.37	0.23
2	0.1	ND	ND	ND	ND	ND	0.32	ND	0.15	ND	0.28	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	0.14	ND	ND	ND	ND	ND	0.11	ND	0	ND	0.2	ND	0.67	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND
4	0.17	ND	ND	ND	ND	ND	ND	ND	0.16	ND	0.35	ND	0.18	ND	0.18	ND	0.54	ND	0.14	ND	ND	ND	ND	ND
Average	0.1	ND	ND	ND	ND	ND	0.15	ND	0.13	ND	0.26	ND	0.25	ND	0.19	ND	0.23	ND	0.09	ND	0.07	ND	0.09	0.06

		SILVER (ug/L) 2004																						
		JAN		FEB		MAR		APR		MAY	JUN		JUL	AUG		SEP		OCT	NOV		DEC			
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Eff	Inf	Eff	Inf	Eff	Eff	Inf	Eff	Inf	Eff		
1	ND	ND			ND	ND	ND	ND	ND	ND	5.5	0.9	4.1	0.7	0.9	ND	3.7	0.4	3.6	<0.2	1.5	ND	1.7	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	1.3	3.6	0.4	4.1	0.4	3.4	0.2	3.6	0.7	ND	ND	0.2	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7	1.5			3.8	0.6	1.1	0.2	2.9	0.4	ND	ND	ND	ND
4	ND	ND	ND	ND	ND		ND	ND	ND	ND	3.9	1.2	1.4	0.2	4.8	0.4	0.5	0.7	1.9	0.3	2.2	ND	0.9	ND
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	1.2	3	0.4	3.4	0.4	2.2	0.4	3	0.4	1.9	ND	0.7	ND

SILVER (ug/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			0.2	ND	ND	ND	2.1	ND			2.2	0.7	0.6	ND	1.3	ND	0.8	ND	2.7	ND		0.6	ND	ND
2	ND	ND	0.8	ND	ND	ND	2.9	0.3	2.3	0.3	2.1	ND	1.9	ND	2.1	ND	2.9	<0.2	0.6	ND	1.3	ND	ND	ND
3	ND	ND	2.2	ND	0.4	ND	3.2	<0.2	2.2	ND	2.7	ND	0.9	ND	0.6	ND	2.3	ND	ND	ND	1.5	ND	ND	ND
4	ND	ND	0.9	ND	0.8	ND	0.9	ND	2.4	ND	1	ND	1	ND	ND	ND	2.4	ND	1.2	ND	10	ND	ND	ND
Average	ND	ND	1	ND	0.3	ND	2.3	0.1	2.3	0.1	2	0.2	1.1	ND	1	ND	2.1	0	1.1	ND	1.3	ND	0.2	ND

SILVER (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.6	ND	ND	ND	0.2	<0.2	ND	ND	ND	ND	ND	ND	2.6	0.4	1.1	ND	1.1	ND	2.6	ND	2.1	0.3	3.6	ND
2	1.2	ND	ND	ND	0.3	0.2	ND	ND	3	ND	2.9	ND	4.1	ND	1.3	ND	0.4	ND	3.0	ND	1.4	ND	3.2	ND
3	0.7	ND	ND	ND	1.3	ND	1.5	ND	2.3	ND	1.7	0.4	1	0.2	1.8	ND	0.8	0.4	1.5	ND	1.2	ND	2.8	0.6
4	0.5	ND	0.2	ND			5.7	ND	1.8	0.9	0.4	0.9	0.2	ND	1.9	ND			3.3	0.2	3.1	0.2	4	0.5
Average	1.0	ND	0.1	ND	0.6	0.1	1.8	ND	1.8	0.2	1.3	0.3	2.0	0.2	1.5	ND	0.8	0.1	2.6	0.1	2.0	0.1	3.4	0.3

SILVER (ug/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	2.1	ND	0.5	ND	1.2	ND	2.4	ND	2.6	ND	3.6	ND	1.6	ND	1.4	ND	ND	ND	1.7	ND	1.6	ND	ND	ND
2	1.2	ND	ND	ND	1.1	ND	1.7	ND	2.4	ND	2.0	ND	2.1	ND	2.4	ND	1.9	ND	0.7	ND	1.9	ND	ND	ND
3	1.8	0.5	ND	ND	2.1	ND	1	ND	2.8	ND	1.2	ND	2.4	ND	1.2	ND	1.9	ND	ND	ND	ND	ND	ND	ND
4	1.2	ND			3	ND	ND	ND	3	0.6			1.9	ND	1.1	ND	2.1	ND	1.8	ND	0.9	ND	0.6	ND
Average	1.6	0.1	0.2	ND	1.9	ND	1.3	ND	2.7	0.6	2.3	ND	2.0	ND	1.5	ND	1.5	ND	1.1	ND	1.1	ND	0.2	ND

		SILVER (ug/L) 2008																							
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	ND	ND	ND	ND	1.9	0.7	ND	ND	ND		0.8	ND	2.2	ND	1.3	ND	1.1	ND	1.3	<0.4			2.8	0.4	
2	1.3	ND	2.6	ND	1.3	0.8	1.6	ND	1.3	ND	1.9	ND	2.0	0.6	1.2	ND	1.8	ND	1.6	<0.4	0.7	ND	1.1	ND	
3	1.0	ND	1.4	ND	1.7	1.1	2.4	ND	1.3	ND	2.7	ND	1.4	ND	1.3	ND	0.6	0.0	0.9	ND	0.6	ND	1.0	ND	
4	1.2	ND	0.9	ND	1.6	0.7	1.4	ND	0.5	ND	1.9	0.6	1.0	0.5	1.7	ND	1.9	0.6	1.4	ND	1.8	ND	0.8	ND	
Average	0.9	ND	1.2	ND	1.6	0.8	1.4	ND	1.0	ND	1.8	0.2	1.7	0.3	1.4	ND	1.4	0.1	1.3	0.0	1.0	ND	1.4	0.1	

		SILVER (ug/L) 2009																							
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	ND	ND	2.5	ND			0.9	ND	1.0	ND	1.1	ND	1.6	ND	1.6	ND			3.3	ND	1.0	ND	1.1	ND	
2	ND	ND	1.7	ND	0.6	ND	2.6	<0.4	1.8	ND	1.1	ND	1.4	ND	1.0	ND	1.0	<0.4	ND	ND	1.2	ND	ND	ND	
3	0.8	ND	1.7	ND	1.2	<0.4	3.5	ND	1.9	1.4	1.2	ND	2.2	ND	ND	ND	1.4	<0.4	ND	ND	0.6	ND	1.0	ND	
4	1.6	ND	0.8	ND	1.6	ND	0.5	ND	1.7	ND	1.2	ND	1.1	ND	0.8	ND	1.5	0.9	1.0	ND	0.6	ND	1.5	ND	
Average	0.6	ND	1.7	ND	1.1	0.0	1.9	ND	1.6	0.4	1.2	ND	1.6	ND	0.9	ND	1.3	0.3	1.1	ND	0.9	ND	0.9	ND	



ZINC (ug/L) 2004																								
	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	136	36			129	29	144	14	141	27	125	20	125	20	112	14	133	17	143	10	140	17	141	ND
2	165	47	148	28	145	42	154	18	141	19	134	19	134	19	175	23	134	15	124	16	116	19	134	ND
3	152	49	145	21	139	24	148	25	140	16	130				141	21	117	17	150	26	110	21	134	ND
4	183	53	135	33	138	49	171	23	128	22		16	130	16	191	17	73	18	98	21	120	17	105	ND
Avg	159	46	143	27	138	36	154	20	138	21	130	18	130	18	155	19	114	17	129	18	122	19	129	ND

ZINC (ug/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			124	29	97	28	144	46			121	48	116	16	149	25	138	24	188	14			148	31
2	96	25	136	22	103	25	142	26	139	21	128	66	131	18	132	19	171	22	138	16	254	21	149	21
3	97	20	196	18	130	22	144	28	118	19	127	58	68	24	146	18	131	17	74	22	129	29	121	19
4	116	25	90	27	117	24	134	24	142	26	122	28	128	25	71	16	145	20	150	23	120	19	118	19
Average	103	23	137	24	112	25	141	31	133	22	125	50	111	21	125	20	146	21	138	19	168	23	134	23

ZINC (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	182	23	17	20	149	26	159	28	256	21	143	26	180	31	151	26	170	23	163	15	181	16	160	18
2	145	23	117	24	201	56	371	31	173	22	169	26	352	26	164	29	158	20	178	36	136	10	125	18
3	129	24	122	24	124	34	182	31	155	27	159	25	149	27	158	27	158	18	82	13	124	9	126	16
4	128	21	129	26			327	64	149	26	173	36	93	26	166	25			168	20	135	9	121	17
Average	146	23	121	24	158	39	260	39	183	24	161	28	194	28	160	27	162	20	148	21	144	11	133	17

		ZINC (ug/L) 2007																							
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	163	18	87	21	149	22	176	18	140	13	183	17	166	17	149	22	152	27	180	24	144	16			
2	153	17	82	21	137	18	167	25	153	13	178	16	195	40	172	20	150	25	166	26	159	16	129	19	
3	149	19	91	22	146	17	164	19	170	15	154	14	191	21	178	24	159	19	130	17	113	20	127	17	
4	159	29			159	17	164	22	154	12			146	22	168	23	187	17	134	18	170	25	126	16	
Average	156	21	87	21	148	19	168	21	154	13	172	16	175	25	167	22	162	22	153	21	147	19	127	17	

		ZINC (ug/L) 2008																							
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	108	19	111	25	147	25	122	25			123	24	155	21	160	25	167	23	185	19			166	29	
2	138	26	267	28	133	23	141	24	162	31	152	29	141	23	157	22	140	24	146	21	136	26	137	28	
3	133	18	123	20	143	22	151	27	159	34	159	31	151	20	167	23	125	27	147	21	134	22	122	32	
4	122	18	87	21	135	26	135	23	131	32	200	31	148	53	162	22	150	22	140	27	159	25	115	26	
Average	125	20	147	24	140	24	137	25	151	32	159	29	149	29	162	23	146	24	155	22	143	24	135	29	

		ZINC (ug/L) 2009																						
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	116	32	177	39			151	25	160	24	162	25	158	21	177	31			403	19	152	17	156	20
2	133	29	134	31	126	ND	161	23	155	21	143	18	150	21	171	25	142	22	73	23	61	26		
3	144	47	152	28	137	ND	151	21	176	21	148	24	173	21	67	19	139	19	153	28	95	20	137	20
4	164	26	141	34	148	ND	141	20	171	20	152	12	151	21	142	26	146	19	143	22	159	17	150	23
Average	139	34	151	33	137	ND	151	22	166	22	151	20	158	21	139	25	142	20	211	23	120	19	126	22

		AMMONIA (mg/L) 2004																						
		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	29.1	28.8			25.2	25.5	25.8	26.6	28.2	26.5	28.8	29.1	28.6	28	29.4	29.1	28.3	27.2	30.2	30.2	23	24.1	26.9	26.6
2	29.7	29.4	29.1	29.4	27.7	28	27.2	27.4	29.7	30	27.4	28.3	26.9	27.4	29.1	29.3	27.7	26	27.4	28.3	28.3	27.7	27.7	27.4
3	26.9	26.6	30.5	27.4	27.7	28.3	24.8	24.9	31.4	30.8	30	28.8		30	28.6	26.9	28	22.1	23	27.2	26.6	28	28.3	
4	30.2	29.4	20.4	20.4	29.1	28.3	27.4	28.3	28.6	28.8	27.4	28.3	28.3	28	28.3	28	28.3	28	19	19.3	27.4	27.2	25.2	24.6
Avg	29	28.6	26.7	25.7	27.4	27.5	26.3	26.8	29.5	29	28.4	28.6	27.9	27.8	29.2	28.8	27.8	27.3	24.7	25.2	26.5	26.4	27	26.7

AMMONIA (mg/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			28	27.7	17.4	17.4	27.7	28			28	28.3	28.3	27.7	29.1	28.8	28.6	28.3	29.1	28.6			31.4	30.5
2	21.6	21.3	28.5	27.7	24.6	24.4	27.9	27.4	28.6	28.3	30.3	29.4	28.8	28.3	29.4	28.6	29.4	29.1	29.7	30	28.6	28.3	29.7	29.4
3	25.2	24.6	26.6	27.4	28	26.6	29.1	28.6	28.6	27.4	30.8	30.2	28.6	28.3	27.4	27.4	27.4	28	27.7	27.4	30.2	30	29.7	29.4
4	27.1	26.6	21.6	21.3	26.9	26.6	27.1	26.9	28.3	28	29.7	29.4	29.4	29.1	27.4	27.7	29.3	28.8	NA	NA	27.7	27.7	29.7	26.3
Average	24.6	24.2	26.2	26	24.2	23.8	28	27.7	28.5	27.9	29.7	29.3	28.8	28.4	28.3	28.1	28.7	28.6	28.8	28.7	28.8	28.7	30.1	28.9

AMMONIA (mg/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	26.9	29.4	33.2	31.9	31.3	29.4	30.1	30.2	34.3	29.1	28.6	28.3	31.3	30.8	31.6	30.2	31.9	31.4	31.9	32.8	31.9	30.2	34.9	33.9
2	29.7	28.3	39.2	36.7	33	32.5	29.1	28.8	31.4	30.8	30.5	29.4	31.0	30.5	32.5	30.5	30.2	30.2	31.4	30.8	31.6	31.4	33.9	33.3
3	30.5	29.7	31.1	30.8	32.5	31.5	31.1	30.8	31.4	31.1	31.1	30.5	30.5	30.2	29.4	30	30	29.7	31.1	30.8	30.8	30.8	32.7	32.2
4	31	30.5	30	29.7			32.3	31.9	30.8	30.2	30.0	29.1	29.6	28.8	NA	NA		NA	NA	31.6	31.1	31.4	31.1	31.1
Average	29.5	29.5	33.4	32.3	32.3	31.1	30.7	30.4	32.0	30.3	30.1	29.3	30.6	30.1	31.2	30.2	30.7	30.4	31.5	31.5	31.5	30.9	33.2	32.6

AMMONIA (mg/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	31.9	31.6	33.3	33.0	29.7	30.0	33.6	33.3	32.7	31.4	32.9	32.5	30.8	30.5	31.4	30.5	29.4	29.7	32.5	31.6	32.8	31.9		
2	31.1	31.1	31.6	31.4	30.4	30.5	NA	NA	32.2	31.6	33.6	33.3	32.8	31.9	33.3	31.6	31.9	31.4	31.4	30.8	34.4	32.8	8.3	27.4
3	31.4	32.2	29.4	28.6	32.4	31.1	33.5	32.8	30.8	30.8	32.2	31.6	34.4	33.3	31.1	29.7	33.6	32.8	34.4	33.3	29.4	29.4	30.7	29.4
4	29.4	29.7			32.5	32.5	33.3	32.8	NA	NA			32.9	33.0	30.9	30.0	32.4	31.6	32.5	31.1	28.3	28.3	28.8	28.6
Average	31.0	31.2	31.4	31.0	31.3	31.0	33.1	32.7	31.9	31.3	32.9	32.5	32.7	32.2	31.7	30.5	31.8	31.4	32.7	31.7	31.2	30.6	22.6	28.5

AMMONIA (mg/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	31.1	30.8	40.5	29.7	30.7	30.8	32.2	31.9			31.3	31.7	32.9	33.0	30.8	32.2	31.9	31.6	31.6	30.0			32.5	31.1
2	27.1	27.4	31.4	30.8	30.5	30.8	33.0	31.6	32.8	31.4	31.9	31.1	31.9	31.4	30.8	32.2	31.6	31.1	32.8	30.5	30.8	30.0	32.4	31.4
3	31.9	31.6	30.0	29.4	30.9	30.8	31.6	33.6	33.9	32.2	31.3	30.7	32.5	32.2	31.6	31.4	31.6	30.8	32.7	30.8	31.1	29.4	25.5	24.6
4	30.2	29.4	29.4	27.4	32.0	32.2	34.7	34.2	30.6	31.3	31.6	31.1	32.1	31.1	32.9	33.6	31.3	30.0	30.8	31.6	31.9	30.8	28.6	28.3
Average	30.1	29.8	32.8	29.3	31.0	31.2	32.9	32.8	32.4	31.6	31.5	31.2	32.4	31.9	31.5	32.4	31.6	30.9	32.0	30.7	31.3	30.1	29.8	28.9

AMMONIA (mg/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	29.7	28.8	31.3	30.0			34.9	33.6	31.0	29.7	34.3	33.6	34.6	33.6	33.6	31.6			34.9	34.2	35.2	33.9	32.9	32.5
2	29.7	29.2	28.3	27.4	31.4	30.2	34.2	33.9	34.4	33.3	33.6	31.9	33.6	31.4	32.8	31.9	30.1	29.1	33.0	31.9	34.4	32.8	26.3	26.0
3	28.7	29.1	29.1	28.8	31.9	31.1	33.3	32.8	33.9	32.8	34.4	33.6	32.5	31.9	30.8	30.2	32.2	31.4	31.6	31.1	36.7	36.4	30.0	29.7
4	30.7	29.9	30.1	29.7	31.4	30.2	32.8	32.5	34.2	32.8	34.4	33.0	33.9	33.0	31.1	30.2	33.0	31.9	33.6	31.6	37.0	35.3	31.6	31.4
Average	29.7	29.3	29.7	29.0	31.6	30.5	33.8	33.2	33.4	32.2	34.2	33.0	33.7	32.5	32.1	31.0	31.8	30.8	33.3	32.2	35.8	34.6	30.2	29.9

CYANIDE (mg/L) 2004																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	0.003	0.003			0.003	0.003	0.003	0.002	0.002	0.002	0.002	<0.002	0.003	0.003	0.003	<0.002	0.003	0.006	0.002	0.002	0.005	0.005	0.03	0.003
2	0.004	0.003	0.003	0.003	0.003	0.003	0.003	ND	0.002	0.003	ND	ND	ND	ND	ND	0.002	ND	<0.002	0.003	ND		0.002	0.002	0.003
3	0.002	0.003	0.002	0.002	0.003	0.003	0.003	0.002	0.003	<0.002	0.002	0.002		0.003	0.002	0.007	0.007	0.003	0.003	0.002	0.003	0.004	0.003	
4	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	ND	<0.002	0.003	0.002	ND	<0.002	0.002	<0.002	0.002	0.003	0.003	0.003	N D	0.002
Avg	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.002	0.001	0.001	0.002	0.002	0.002	0.001	0.003	0.003	0.003	0.003	0.002	0.003	0.002	0.003

CYANIDE (mg/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			0.002	0.002	0.003	0.002	0.003	0.003			0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.002	0.002			0.006	0.003
2	0.003	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.002	0.002	ND	ND	0.002	0.003	ND	0.003	0.002	<0.002	ND	<0.002	0.002	0.002	0.003
3	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.002	0.003	0.003	0.002	0.002	0.002	ND	0.004	0.003
4	0.003	0.003	0.003	0.004	0.004	0.003	0.002	0.003	0.002	0.003	0.002	0.002	0.003	0.003	ND	ND	ND	ND	0.002	<0.002	ND	0.002	0.003	ND
Average	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.001	0.002	0.001	0.001	0.001	0.004	0.002

CYANIDE (mg/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	0.002	0.002	0.002	0.003	0.002	<0.002	ND	<0.002	0.002	ND	ND*	ND*	ND	ND	ND	ND	ND	ND	0.002	0.002	ND	ND	ND	ND
2	0.002	<0.002	0.002	<0.002	0.003	0.002	0.003	0.002	0.002	<0.002	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	0.002	0.002	0.002	0.002
3	0.002	0.002	0.003	0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	0.002	0.002	ND	ND	ND	0.003	ND	ND	ND	0.002	0.002	ND	0.002
4	0.002	<0.002	0.003	<0.002			0.002	<0.002	ND	ND	0.003	0.002	0.002	<0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.002
Average	0.002	0.001	0.003	0.001	0.002	0.001	0.002	0.001	0.002	0.000	0.002	0.001	0.002	0.000	ND	ND	0.001	ND	0.001	0.001	0.001	0.001	0.001	0.002

\*Sample P34505 and P343508 were analyzed one day out of the 14 day holding time for cyanide analysis.

CYANIDE (mg/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	0.002	0.003	ND	ND	NA	NA	ND	ND	ND	ND	0.002	ND	ND	ND	ND	0.002	ND	<0.002	ND	<0.002	ND	ND
2	0.002	0.002	ND	0.002	0.003	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	<0.002	ND	ND	ND
3	ND	<0.002	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND			0.001	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.002	ND	ND	ND	ND	ND	ND
Average	0.001	0.001	0.002	0.003	0.002	ND	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.002	0.001	ND	0.000	ND	0.000	ND	ND

CYANIDE (mg/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.002			ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.002	ND	ND	ND	<0.002	ND	0.002
3	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	0.002	ND	0.002	ND	<0.002
4	ND	ND	ND	ND	0.002	<0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	<0.002	ND	0.003	0.002	0.003
Average	ND	ND	ND	ND	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND	0.001	ND	0.002	0.001	0.001

CYANIDE (mg/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	0.003			0.002	0.003	ND	0.002	ND	0.002	0.002	0.003	ND	ND	ND	ND	ND	0.002	ND	0.002	0.002	ND
2	0.002	<0.002	ND	ND	0.002	0.003	0.002	0.003	ND	0.003	0.002	0.003	ND	ND	ND	ND	0.002	0.025	ND	0.002	0.002	0.003	0.002	0.002
3	0.002	<0.002	ND	<0.002	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	0.002	<0.002	0.003	ND	0.002	ND	0.002	ND	ND	ND	0.002
4	0.002	0.003	ND	0.002	0.003	0.003	ND	0.002	0.002	0.003	0.002	0.003	ND	ND	ND	ND	0.002	0.002	0.003	ND	0.003	0.002	0.002	0.003
Average	0.002	0.001	ND	0.001	0.002	0.003	0.001	0.002	0.001	0.002	0.001	0.002	0.001	0.002	0.000	0.001	0.001	0.010	ND	0.002	0.001	0.002	0.002	0.002

EFFLUENT RADIATION (pCi/L) 2004																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	3	16.1			2.2	14.8	0.3	21.5			1	1	14.5	0.9	26.3				1.7	21.1	0.9	17	1.7	25.7
2			1.9	16.4					0.8	15.9						0.9	20.8	23.1						
3																								
4																								
Avg	3	16.1	1.9	16.4	2.2	14.8	0.3	21.5	0.8	15.9	1	1	14.5	0.9	26.3	0.9	20.8	23.1	1.7	21.1	0.9	17	1.7	25.7

EFFLUENT RADIATION (pCi/L) 2005																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1			3.2	18.9	2.5	8.8	1.1	16.8			3	19.3	1.3	14.3			2	11.7	1.9	13.1		2.7	18.1	
2	1.5	15							2.9	13.9					1.3	20.2					0.7	25.7		
3																								
4																								
Average	1.5	15	3.2	18.9	2.5	8.8	1.1	16.8	2.9	13.9	3	19.3	1.3	14.3	1.3	20.2	2	16.9	1.9	13.1	0.7	25.7	2.7	18.1

EFFLUENT RADIATION (pCi/L) 2006																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	0.7	12.3	0.7	38.3	2.7	10.5	2.7	10.9			1.0	12.1	1.6	14.6	1.5	13.3	0.7	10.7	0.2	13.4	2.7	17.7	1.9	12.8
2									1.5	16.3														
3																								
4																								
Average	0.7	12.3	0.7	38.3	2.7	10.5	2.7	10.9	1.5	16.3	1.0	12.1	1.6	14.6	1.5	13.3	0.7	10.7	0.2	13.4	2.7	17.7	1.9	12.8

EFFLUENT RADIATION (pCi/L) 2007																									
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta	
1	0.6	5.5	1.5	23.9	2.3	27.7	2.8	26.3					1.1	28.6				0.8	25.4	0.2	28.0				
2									1.1	29.8	1.5	20.7				1.4	27.5					2.5	24.8	1.1	19.5
3																									
4																									
Average	0.6	5.5	1.5	23.9	2.3	27.7	2.8	26.3	1.1	29.8	1.5	20.7	1.1	28.6	1.4	27.5	0.8	25.4	0.2	28.0	2.5	24.8	1.1	19.5	

EFFLUENT RADIATION (pCi/L) 2008																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	1.3	25.3			1.8	21.8	2.3	28.6				1.4	30	0.5	30.3			4.5	28.1	2.7	22.2		6.4	24
2			1.7	22.8					1.3	23.4						6.1	31.3					3.6	30	
3																								
4																								
Average	1.3	25.3	1.7	22.8	1.8	21.8	2.3	28.6	1.3	23.4	1.4	30	0.5	30.3	6.1	31.3	4.5	28.1	2.7	22.2	3.6	30	6.4	24

EFFLUENT RADIATION (pCi/L) 2009																									
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta	
1	1	27	4.8	29.5			2.8	32.6				2.6	25.9	3.3	30.2	4	34.5			1.3	34.8	0.6	36.1	6.4	37.5
2					5.1	28.7			0.0	32.3								3.7	37						
3																									
4																									
Average	1	27	4.8	29.5	5.1	28.7	2.8	32.6	0.0	32.3	2.6	25.9	3.3	30.2	4	34.5	3.7	37	1.3	34.8	0.6	36.1	6.4	37.5	

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ENDRIN (ng/L) 2004																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	DEC Eff
1	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ENDRIN (ng/L) 2005																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	DEC Eff
1			ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ENDRIN (ng/L) 2006																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ENDRIN (ng/L) 2007																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	DEC Eff
1	ND	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ENDRIN (ng/L) 2008																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ENDRIN (ng/L) 2009																							
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	DEC Eff
1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

## HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2004

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	nd	nd			16	nd	16	nd	19	nd	nd	nd	14	nd	31	nd	16	11	29	ND	28	ND	24	16.5	
2	14	nd	nd	nd	40	nd	nd	nd	11	nd	24.5	nd	26	nd	44	nd	16	12	41	ND	24	ND	20	ND	
3	nd	nd	11	nd	15	nd	33	12	10	nd	29	nd			20	nd	12	nd	11	ND	34	ND	26	ND	
4	nd	nd	nd	nd	34	nd	nd	nd	58	nd	22	nd	88	67	nd	nd	13	nd	ND	ND	42	ND	25	ND	
Avg	6.8	nd	3.7	nd	26.3	nd		12.3	3	24.5	nd	18.9	nd	42.7	22.3	23.8	nd	14.3	5.8	20.3	ND	32	ND	23.8	4.1

## HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2005

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			ND	ND	15	ND	36	15			24	ND	40	41	25	13.5	30	ND	31	ND		ND	ND	10.5
2	13	ND	ND	ND	ND	ND	43	16	33	17	22	11.5	29.7	13.5	35	20	32	ND	30	ND	ND	ND	ND	ND
3	21	ND	ND	30.5	12	ND	30.3	13.8	25	ND	15	ND	27.3	ND	44	72.5	14	ND	29	ND	ND	ND	ND	ND
4	28	ND	ND	ND	ND	ND	39	ND	29.3	16	20	13	17.3	20.8	0	23	11	ND	29	20	15	ND	28	ND
Average	20.7	ND	ND	7.6	6.8	ND	37.1	11.2	29.1	11	20.3	6.1	28.6	18.8	26	32.3	21.8	ND	29.8	5	5	ND	7	2.6

## HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2006

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	30	14	ND	ND	12	ND	ND	ND	11.0	ND	30	12.5	24.0	ND	ND	ND	ND	ND	ND	11	ND	ND
2	49	17	ND	ND	ND	ND	ND	ND	ND	ND	15.0	ND	30	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.0	ND	28	ND	22.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	14	ND	17	ND			ND	ND	21	ND	0.0	ND	ND	ND	21.0	ND			ND	ND	ND	ND	ND	ND
Average	20.3	4.3	11.8	3.5	ND	ND	3	ND	5.3	ND	10.0	ND	22	3.1	20.3	ND	ND	ND	ND	ND	ND	2.8	ND	ND

## HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2007

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	16	ND					ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	17	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	426.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	15	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	7.0	ND
4	0	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	12.0	ND	ND	ND	ND	ND	4.8	ND	2.5	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND

## HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2008

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND
2	ND	ND	ND	10.5	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	2.6	ND	ND	1.6	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

## HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2009

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND			5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	0	ND	ND	ND			ND	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2004

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	45	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	131	139	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	43.7	46.2	nd	nd	11.3	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2005

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND
2	ND	ND	ND	ND	ND	ND	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	178	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.5	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2006

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2007

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND		ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	58.0	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2008

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2009

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



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DDT AND DERIVATIVES (ng/L) 2004																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	nd	nd			nd	nd	nd	nd	24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	30	nd	
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	20	nd	
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	24	nd	
Avg	nd	nd	nd	nd	nd	nd	nd	nd	6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	18.5	nd	

DDT AND DERIVATIVES (ng/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND

DDT AND DERIVATIVES (ng/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DDT AND DERIVATIVES (ng/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND			ND	ND	8.0	ND	24.0	8.0		15.0	ND	ND	ND	ND	18.0	ND	ND	ND	ND	ND	ND	
2	ND	ND	ND	ND	ND	ND	16.0	ND	14.0	ND	17.0	ND	230.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3	ND	ND	ND	ND	ND	ND	0.0	ND	15.0	ND	8.0	ND	ND	ND	ND	ND	11.0	ND	ND	ND	ND	ND	ND	
4	ND	ND	ND	ND	ND	ND	22.0	4	16.0	ND	12.0	ND	ND	ND	ND	ND	16.0	ND	ND	ND	ND	ND	ND	
Average	ND	ND	ND	ND	ND	ND	11.5	1	17.3	2.0	12.3	ND	5.0	ND	ND	ND	11.3	ND	ND	ND	ND	ND	ND	

DDT AND DERIVATIVES (ng/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	13	ND	ND	ND	ND	ND	ND		22.0	ND	ND	ND	5.0	4.0	15.0	ND	ND	ND		ND	ND	4.5
2	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	22	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.0	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	8.0	ND	ND	ND	11.0	ND	37.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	8.8	ND	ND	1.5	ND	ND	5	ND	5.5	ND	2.8	ND	10.5	1	3.8	ND	3.3	ND	ND	ND	ND	1.1

DDT AND DERIVATIVES (ng/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	27	5			6.0	ND	19.0	ND	ND	ND	ND	ND	ND	ND			5.0	ND	ND	ND	ND	4.5
2	ND	ND	ND	ND	ND	ND	ND	ND	28.0	ND			ND	ND	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	8.6	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	26	ND	ND	ND	18.0	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	13.3	1.3	ND	ND	6.0	ND	13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	1.1



CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2004

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2005

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2006

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2007

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2008

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2009

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2004																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	16.9	13.6			11.6	13.9	17.5	13.6	11.5	10.1	16.2	10.6	18.4	11.1	11.4	9.1	15.9	10.7	14.7	7.4	15.5	10.9	12.5	11.9
2	21	19.6	13.8	11	13.7	15.7	12.3	11	21.3	19.9	27.5	10.9	20.3	11.1	19	8.8	16.5	9.9	16.4	11.1	16.2	9.7	17.7	10.3
3	17.4	18	15.8	12	14.7	14.7	15.6	13.3	21	14.2	19.4	11.1		11.8	10.4	15	8.9	5.6	4.4	12.1	8.2	17.8	12.4	
4	16.6	18.4	9.1	8.8	9.7	11.9	13.5	13.2	14.6	11.9	22.5	13.4	20.2	9.6	17.8	11	15	7.2	7.6	4.3	16.2	12.9	11.8	7.7
Avg	18	17.4	12.9	10.6	12.4	14.1	14.7	12.8	17.1	14	21.4	11.5	19.6	10.6	15	9.8	15.6	9.2	11.1	6.8	15	10.4	15	10.6

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2005																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1			11.3	8.1	4.3	2.9	14.6	13.7			16.3	11.5	17.3	11.2	9.4	5.5	13.4	8.3	13.3	939		19.7	15.6	
2	7.5	6.1	10.9	6.3	11.2	9.6	13.1	12.5	17.9	11.6	15	13.1	18.7	12.7	13.6	10	13.1	13.4	14.3	11	17.1	13.1	15.3	10.7
3	9.1	5.9	15.2	10.2	14.6	12.6	14.9	13.5	20.4	13.5	17.2	13.6	17.8	11	15.5	8.4	9.4	12.3	11.6	11.4	14.7	13.7	14.1	8.3
4	17.3	12.2	7.9	5.6	16.1	10.8	16.7	10.2	17.7	9.3	15.5	10.6	7.9	11.6	8.2	8.4	15.5	12.5	19.5	11.9	16.2	12	16.8	10.8
Average	11.3	8.1	11.3	7.6	11.6	9	14.8	12.5	18.7	11.5	16	12.2	15.4	11.6	11.7	8.1	12.9	11.6	14.7	11	16	12.9	16.5	11.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	15.8	12.4	14.1	12.9	16.5	15.9	27.3	19	22	10.5	14.6	13.2	26.9	13.5	20.3	13.4	21.3	15.2	14.9	10.4	16.3	7.7	19.3	13.6
2	17.4	12.4	14.3	10.7	16.4	13.6	22.1	15.6	40.5	21.8	21.9	16.3	16.4	13.1	17	12.7	11.7	10.9	19.3	13.2	19.5	13	18.2	11.9
3	12.2	10.7	15	12.1	31.5	25.6	26.7	18.8	23.5	17.7	21.6	17.3	20.9	13.5	22.5	15.6	11.6	9.9	17.1	13.4	16.9	11.5	17.6	13.7
4	12.6	11.6	15.1	10.4			21.6	18	19.9	12.4	14.7	14.4	18.2	11.9	21.8	11.4			8.2	10	21.3	14.9	26.2	22.5
Average	14.5	11.8	14.6	11.5	21.5	18.4	24.4	17.9	26.5	15.6	18.2	15.3	20.6	13.0	20.4	13.3	14.9	12.0	14.9	11.8	18.5	11.8	20.3	15.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2007																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	18.8	15.1			16.2	12.9	19.9	17.5	20.3	15.7	16	13	14.3	9.3	16	10	16.2	9.4	19.4	8.7	18.5	12.3	14.2	8.8
2	16.9	15.4	15.7	12.7	16.4	14.5	17.9	16.4	21.1	12.5	20.2	13.2	12.4	10.2	14.6	8	14.7	8.7	17.7	10.5	21.6	14.5	15.5	11.6
3	19.6	20.1	29.9	15.2	17.8	13.4	12.8	11.3	20	12.6	16.8	9.3	16.9	12.4	16.3	7.9	15.4	8.9	13.7	8.1	20.3	13.3	16.4	12.2
4	11.1	16.7	16.3	13.5	16.1	13.4	19.6	14.2	16.6	11.1			12.7	7.5	12	6.6	15.3	17.6	17.9	10.5	17.1	12		
Average	16.6	16.8	20.6	13.8	16.6	13.6	17.6	14.9	19.5	13.0	17.7	11.8	14.1	9.9	14.7	8.1	15.4	11.2	17.2	9.5	19.4	13.0	15.4	10.9

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2008																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	18.8	15.0	17.4	11.1	18.9	13.3	19.8	11.6			18.4	12.0	16.8	11.5	14.6	11.2	14.3	9.9	15.2	12.3		15.2	13.1	
2	16.8	10.7	15.4	9.5	17.9	13.7	23.0	16.7	17.8	15.4	21.9	15.3	21.8	12.8	18.7	13.8	19.4	11.5	11.2	9.1	16.7	11.8	16.3	16.4
3	18.9	13.0	17.2	13.5	20.0	11.3	22.6	15.4	19.5	17.4	27.0	10.1	16.7	8.3	16.5	14.4	12.2	10.4	14.3	10.3	14.2	12.5	4.8	6.1
4	17.7	9.4	17.4	13.0	16.4	12.9	21.1	17.7	19.6	13.3	22.4	12.1	13.6	9.7	19.3	11.3	11.2	8.9	14.4	12.9	16.5	15.0	14.9	13.7
Average	18.1	12.0	16.9	11.8	18.3	12.8	21.6	15.4	19.0	15.4	22.4	12.4	17.2	10.6	17.3	12.7	14.3	10.2	13.8	11.2	15.8	13.1	12.8	12.3

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2009																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	17.2	14.3	15.6	14.3			18.5	17.4	17.6	16.2	19.2	13.7	22.0	15.0	19.2	14.3			22.5	18.2	16.6	13.5	16.4	12.7
2	13.2	11.8	15.7	12.0	14.5	13.4	16.2	17.3	19.4	13.8	18.2	15.3	19.1	18.3	26.7	17.4	22.0	12.7	21.4	13.1	22.6	14.3	15.0	8.6
3	15.0	13.1	16.0	12.6	17.7	15.3	13.5	12.8	20.3	17.5	18.0	13.4	20.4	14.5	19.4	12.0	17.1	11.7	22.6	17.1	20.6	13.8	19.1	13.3
4	17.4	17.5	17.3	13.8	18.6	16.8	19.6	16.0	16.0	14.9	20.5	10.2	20.4	14.1	19.4	14.0	21.4	11.5	23.0	15.0	23.1	19.1	17.9	16.4
Average	15.7	14.2	16.2	13.2	16.9	15.2	17.0	15.9	18.3	15.6	19.0	13.2	20.5	15.5	21.2	14.4	20.2	12.0	22.4	15.9	20.7	15.2	17.1	12.8

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